PENTAX™

Digital Camera

Optio M20

Operating Manual

To ensure the best performance from your camera, please read the Operating Manual before using the camera.

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Thank you for purchasing this PENTAX Digital Camera.

Please read this manual before using the camera in order to get the most out of all the features and functions. Keep this manual safe, as it can be a valuable tool in helping you to understand all the camera's capabilities.

Regarding copyrights

Images taken using the PENTAX Digital Camera that are for anything other than personal enjoyment cannot be used without permission according to the rights as specified in the Copyright Act. Please take care, as there are even cases where limitations are placed on taking pictures even for personal enjoyment during demonstrations, performances or of items on display. Images taken with the purpose of obtaining copyrights also cannot be used outside the scope of use of the copyright as laid out in the Copyright Act, and care should be taken here also.

Regarding trademarks

- PENTAX and Optio are trademarks of PENTAX Corporation.
- The SD logo and the SDHC logo are trademarks.
- QuickTime™ and QuickTime logo are trademarks used under license. The QuickTime logo is registered in U.S. and other countries.
- All other brands or product names are trademarks or registered trademarks of their respective owners.

To users of this camera

- There is a possibility that recorded data may be erased or that the camera may not function correctly when used in surroundings such as installations generating strong electromagnetic radiation or magnetic fields.
- The liquid crystal panel used in the LCD display is manufactured using extremely high precision technology. Although the level of functioning pixels is 99.99% or better, you should be aware that 0.01% or fewer of the pixels may not illuminate or may illuminate when they should not. However, this has no effect on the recorded image.

This product supports PRINT Image Matching III, PRINT Image Matching enabled digital still cameras, printers and software help photographers to produce images more faithful to their intentions. Some functions are not available on printers that are not PRINT Image Matching III compliant.

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PRINT Image Matching is a trademark of Seiko Epson Corporation. The PRINT Image Matching logo is a trademark of Seiko Epson Corporation.

Regarding PictBridge

PictBridge allows the user to connect the printer and digital camera directly, using the unified standard for the direct printout of images. You can print images directly from the camera through a few simple operations.

Regarding ImageLink

ImageLink and the ImageLink print system logo are trademarks of Eastman Kodak Company used under license.

- There is a possibility that the illustrations and the display screen of the LCD monitor in this manual are different form the actual product.

Regarding Product Registration

In order to better service you, we request that you complete the product registration, which can be found on the CD-ROM supplied with the camera or the PENTAX website. Thank you for your cooperation.
Refer to the PC Connection Manual (bottom right of the front side) for more information.

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FOR SAFE USE OF YOUR CAMERA

We have paid close attention to the safety of this product. When using this product, we request your special attention regarding items marked with the following symbols.

⚠ **Warning**	This symbol indicates that violating this item could cause serious personal injury.
⚠ **Caution**	This symbol indicates that violating this item could cause minor or medium personal injury, or material loss.

About the Camera

⚠ Warning

- Do not attempt to take the camera apart or remodel the camera. High voltages are present within the camera, and there is therefore a danger of electric shocks if the camera is taken apart.
- If the inside of the camera should become exposed as a result of, for example, the camera being dropped, please do not under any circumstances touch such exposed portions, as there is a danger of receiving an electric shock.
- To avoid the risk of it being swallowed by mistake, keep the SD Memory Card out of the reach of small children. Seek medical attention immediately if a card is accidentally swallowed.
- Wrapping the strap of the camera around your neck is also dangerous. Please take care that small children do not hang the strap around their necks.
- Use an AC adapter that is of the power and voltage specified for exclusive use with this product. The use of an AC adapter other than that specified exclusively for use with this product may cause fire or electric shocks.
- If the camera emits smoke or a strange smell, or in the event of any other irregularity, stop using the camera immediately, remove the batteries or unplug the AC adapter, and contact your nearest PENTAX Service Center. Continued use of the camera may result in fire or electric shock.

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⚠ Caution

- Never try to disassemble or short the batteries. Also, do not dispose of the batteries in a fire, as they may explode.
- Do not charge any batteries other than rechargeable Ni-MH batteries. The batteries could explode or catch fire. Batteries for use with this camera other than Ni-MH batteries cannot be charged.
- Do not place your finger on the flash when it is discharging as there is a risk of burns.
- Do not discharge the flash while it is touching your clothing as there is a risk of discoloring.
- If any of the battery leakage should come in contact with your eyes, do not rub them. Flush your eyes with clean water and get medical attention immediately.
- If any of the battery leakage should come in contact with skin or clothes, wash the affected areas thoroughly with water.
- Remove the batteries from the camera immediately if it becomes hot or begins to smoke. Be careful not to burn yourself during removal.
- Some portions of the camera heat up during use, so please take care, as there is a risk of low temperature burns if such portions are held for long periods of time.
- Should the LCD be damaged, be careful of glass fragments. Also, be careful not to allow the liquid crystal to get on your skin or in your eyes or in your mouth.

Handling Precautions for Batteries

- This camera uses two AA alkaline, AA lithium, AA Ni-MH or AA nickel manganese batteries. Do not use batteries other than those specified here. Using some other type of battery may cause the camera to function poorly, or the batteries may rupture or cause a fire.
- AA alkaline, AA lithium and AA nickel manganese batteries cannot be recharged. Do not try to take the batteries apart. The batteries may rupture or leak if you try to charge them or take them apart.
- Do not remove the external seal of the battery. If the seal is removed, the battery may short and may cause a fire, rupture, leak or heat.
- When replacing the batteries, do not combine different brands, types or capacities. Also, do not combine old batteries with new ones. Doing so may cause the batteries to rupture or cause a fire.
- Do not insert the batteries with the positive (+) and negative (–) poles in the wrong orientation. Doing so may cause the batteries to rupture or cause a fire.

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About the AC Adapter

⚠ Caution

- Do not place heavy objects on the AC plug cord, allow heavy objects to drop onto it or allow the AC plug cord to become damaged due to excessive bending. If the AC plug cord becomes damaged, consult a PENTAX Service Center.
- Do not short or touch the output terminals of the product while it is still plugged in.
- Do not plug in the AC plug cord with wet hands. This can cause an electrical shock.
- Do not subject the product to strong impacts or allow it to drop onto a hard surface. This can cause a malfunction.

Care to be Taken During Handling

- Take the Worldwide Service Network listing that is included in the package with you when traveling. This will be useful if you experience problems abroad.
- When the camera has not been used for a long time, confirm that it is still working properly, particularly prior to taking important pictures (such as at a wedding or during traveling). Contents of the recording cannot be guaranteed if recording, playback or transferring your data to a computer, etc. is not possible due to a malfunction of your camera or recording media (SD Memory Card), etc.
- The lens on this camera is not interchangeable. The lens is not removable.
- Do not clean the product with organic solvents such as thinner, alcohol or benzene.
- Places of high temperature and humidity should be avoided. Particular care should be taken regarding vehicles, which can become very hot inside.
- Storing the camera where pesticides and chemicals are handled should be avoided. Remove from case and store in a well-ventilated place to prevent the camera from becoming moldy during storage.
- As this camera is not waterproof, do not use the camera where it may come in contact with rain, water or any other liquid.
- Ensure that the camera is not subjected to substantial vibrations, shock, or pressure. Use a cushion to protect the camera when it is subjected to the vibrations of a motorbike, car, ship, etc.
- The temperature range in which the camera can be used is 0°C to 40°C (32°F to 104°F).

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- The liquid crystal display will become black at a high temperature but will return to normal when normal temperatures are returned to.
- The response speed of the liquid crystal display becomes slow at low temperatures. This is due to the properties of the liquid crystal and is not a fault.
- Periodic checks are recommended every 1 to 2 years in order to maintain high performance.
- If the camera is subjected to rapid temperature changes, condensation may form on the inside and outside of the camera. Therefore put the camera in a bag or plastic bag, and take the camera out when the difference in temperature has subsided.
- Be careful not to allow dirt, mud, sand, dust, water, toxic gases or salt to enter the camera as this may damage the camera. Wipe away any raindrops or water droplets and allow the camera to dry.
- Refer to “Precautions When Using an SD Memory Card” (p.28) regarding the SD Memory Card.
- Please note that formatting an SD memory card or built-in memory will delete all data; however it may still be possible to recover that data using off-the-shelf data recovery software. Please manage your camera’s memory at your own risk.
- Please do not press forcefully on the LCD monitor. This could cause breakage or malfunction.
- Be careful not to sit down with the camera in your back pocket as this may damage the exterior of the camera or the LCD monitor.
- When using a tripod with the camera, be careful not to overtighten the screw in the tripod socket on the camera.

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The meanings of the symbols used in this operating manual are explained below.

☞	indicates the reference page number for an explanation of the related operation.
memo	indicates information that is useful to know.
Caution	indicates precautions to be taken when operating the camera.
mode	This is the mode for capturing still pictures and recording movies and sound files. In this manual, the mode for taking still pictures is referred to as the “Still Picture Capture Mode”, the mode for recording movies is referred to as the “ mode” and the mode for recording sound files is referred to as the “ mode”.
mode	This is the mode for viewing still pictures and playing back movies and sound files.
, AUTO PICT, P, , , , , , , , , , , , , ,	The icons above the title show the shooting modes that can activate the function. Ex. P **Setting the Image Sharpness (Sharpness)**

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Memo

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Composition of the Operating Manual

This operating manual contains the following chapters.

1 Getting Started

This chapter explains what you need to do after purchasing the camera before you start taking pictures. Be sure to read it and follow the instructions.

2 Quick Start

This chapter explains the simplest way to take pictures and play back images. Use it if you want to start taking pictures or playing back images straightaway.

3 Common Operations

This chapter explains common operations such as the functions of the buttons and how to use the menus. For more details, refer to the respective chapters below.

4 Taking Pictures

This chapter explains the various ways of capturing images and how to set the relevant functions.

5 Playing Back and Deleting Images

This chapter explains how to view still pictures and movies on the camera or on a TV and how to delete images from the camera.

6 Editing and Printing Images

This chapter explains the various ways of printing still pictures and how to edit images with the camera. Refer to the PC Connection Manual for instructions on saving images to a computer and installing ACDSee for PENTAX, and refer to ACDSee for PENTAX Help for instructions on editing and printing images with a computer.

7 Recording and Playing Back Sound

This chapter explains how to record sound files or add sound (a voice memo) to an image, and how to play back sound files.

8 Settings

This chapter explains how to set the camera-related functions.

9 Appendix

This section deals with troubleshooting and lists the optional accessories.

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Camera Features

In addition to basic picture-taking, the Optio M20 has a variety of shooting modes to suit different situations. This section describes how to make the most of the key features of your camera. Together with the explanations of camera operations, it will enable you to enjoy your camera to the full.

Easy-to-Navigate Capture and Playback Functions!

The Optio M20 features an easy-to-see 2.5-inch LCD monitor. At 60 frames per second, the display quality is high, allowing you to frame your shots smoothly. In addition, settings for capture, playback and editing functions are easy to navigate. Simply select icons that appear on the LCD monitor.

If you are unsure of which shooting mode to use, first select AUTO PICT (Auto Picture) (p.61). The camera selects the appropriate shooting mode* depending on the scene.

A guide appears when you select an icon, allowing you to check the functions available in each mode and how to use them. (p.60)

* When you select AUTO PICT (Auto Picture mode), the shooting mode is selected from ☺ (Standard mode), (Night Scene mode), (Landscape mode), and (Portrait mode).

- **Let the camera choose the optimal settings.**
- **Use the Green Mode to take pictures easily using standard settings. (p.64)**

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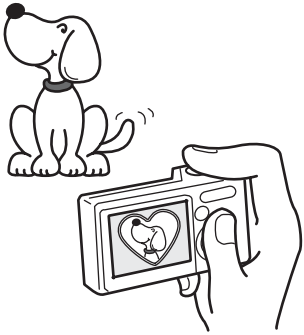
Choose a Frame Before Taking the Picture!



With the Optio M20, you can add a fun frame when taking a picture of a child or your pet, for example. (p.67) You can also add frames to pictures you have taken. Adjust the position of the subject in the picture or reduce or enlarge the picture size to match the frame shape and size. Now you no longer have to worry about the subject not being aligned in the frame.

- **For decorating your pictures with a frame.**

Easy Printing without Using a Computer!

By connecting the camera to a printer that supports PictBridge using the USB cable, you can print images directly from the camera. In addition, by placing the supplied dock insert onto a Kodak EasyShare Printer Dock and then placing the camera on the printer dock, anyone can enjoy easily printing out images with the touch of a single button.
Gone are the days of not being able to print out pictures at home because operating the computer was too difficult!

- **Easily print out images without using a computer.**

Display Images and Sound Files in Calendar Format!

With the Optio M20, you can display recorded images and sound files by date in calendar format. (p.109) This lets you quickly find the image or sound file you want to play back.

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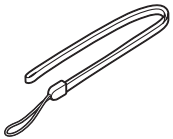
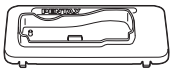
Checking the Contents of the Package

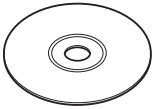
Camera
Optio M20



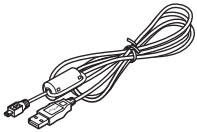
Strap
O-ST51 (*)



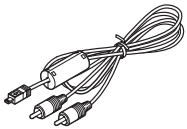
Dock insert
O-DI58



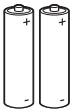
Software (CD-ROM)
S-SW58



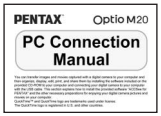
USB cable
I-USB7 (*)



AV cable
I-AVC7 (*)



Two AA
alkaline batteries



PC Connection Manual

Operating Manual
(this manual)

Quick Guide

Items marked with an asterisk (*) are also available as optional accessories.
For other optional accessories, refer to “Optional Accessories” (p.170).

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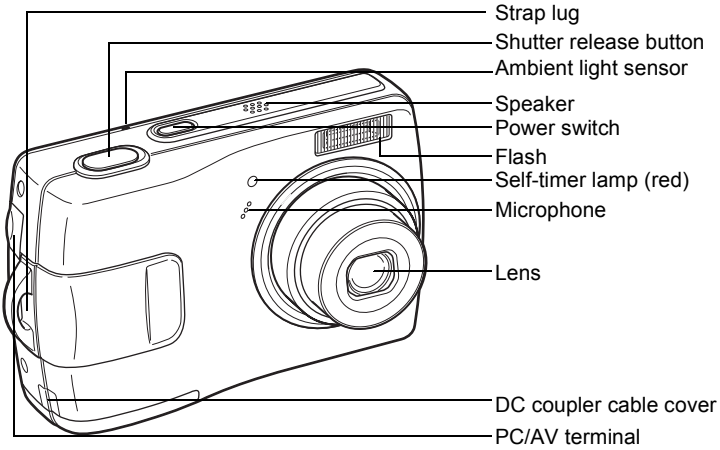
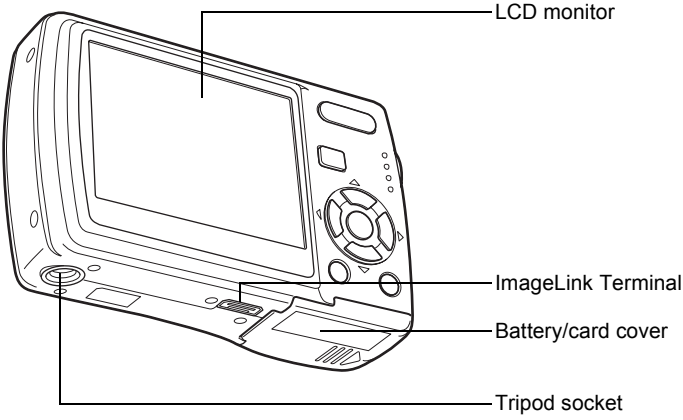
Names of Parts

Front



Back



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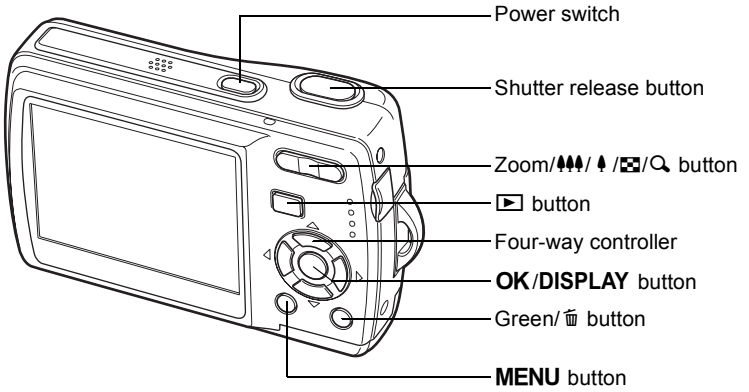
Names of Operating Parts

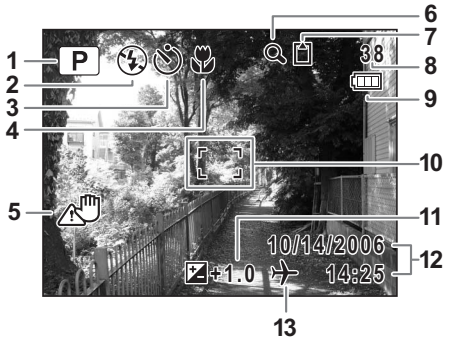


memo Refer to Understanding the Button Functions (p.43 - p.46) for an explanation of the function of each button.

Monitor Indications

Normal Display in Still Picture Capture Mode

The display shows information such as the shooting conditions.



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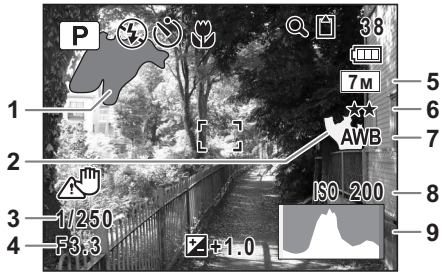
1 Shooting mode (p.52)
2 Flash mode (p.81)
3 Drive mode (p.72, p.73)
4 Focus mode (p.79)
5 Camera shake icon (p.77)
6 Digital zoom icon (p.74)
7 Memory status (p.32)
: Built-in memory (without card)
: SD Memory Card
: Card is write-protected
8 Remaining image storage capacity
9 Battery indicator (p.22)
10 Focus frame (p.39)
11 EV compensation (p.76)
12 Date and time (p.37)
13 World Time (p.154)
No icon : Hometown
: Destination

Full Display in Still Picture Capture Mode
(All of the indications are displayed here for explanatory purposes.)



1 Bright portion (blinks red)
2 Dark portion (blinks yellow)
3 Shutter speed
4 Aperture
5 Recorded pixels (p.83)
6 Quality (p.85)
7 White balance (p.87)
8 Sensitivity (p.90)
9 Histogram (p.78)

* 3 and 4 only appear when the shutter release button is pressed halfway.

About the Bright and Dark Portions
When there is an area in the frame that is so bright it appears white, the indicated area blinks red as a warning. Similarly, when there is an area that is so dark it appears black, the indicated area blinks yellow as a warning.

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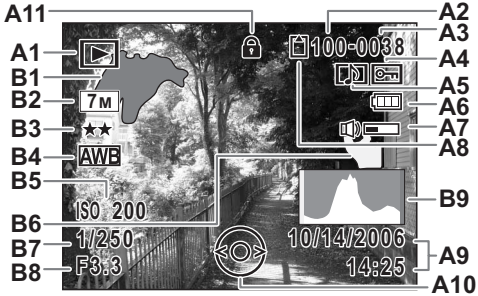
Full Display in Still Picture Playback Mode
(All of the indications are displayed here for explanatory purposes.)
The display shows information such as the shooting conditions. A1 to A11 appear when [Normal Display] or [Histogram + Info] is selected. B1 to B9 only appear when [Histogram + Info] is selected. (p.112)



A1 Playback mode (p.58)
A2 Folder number (p.156)
A3 File number
A4 Protect icon (p.122)
A5 Voice memo icon (p.147)
A6 Battery indicator (p.22)
A7 Volume icon (p.147)
A8 Memory status (p.32)
: Built-in memory (without card)
: SD Memory Card
: Card is write-protected
A9 Captured date and time (p.37)
A10 Four-way controller guide
A11 Key lock icon (p.64)
B1 Bright portion (blinks red) (p.17)
B2 Recorded pixels (p.83)
B3 Quality (p.85)
B4 White balance (p.87)
B5 Sensitivity (p.90)
B6 Dark portion (blinks yellow) (p.17)
B7 Shutter speed
B8 Aperture
B9 Histogram (p.78)

In Normal Display, A6 and A9 disappear if no operation is performed in two seconds.

Guide Indications
A guide to available button operations appears on the LCD monitor during operation.
The buttons are indicated as shown below.

Four-way controller (▲)	▲
Four-way controller (▼)	▼
Four-way controller (◀)	◀
Four-way controller (▶)	▶
MENU button	MENU

Zoom button	
OK/**DISPLAY** button	OK
Shutter release button	SHUTTER
Green/ button	,

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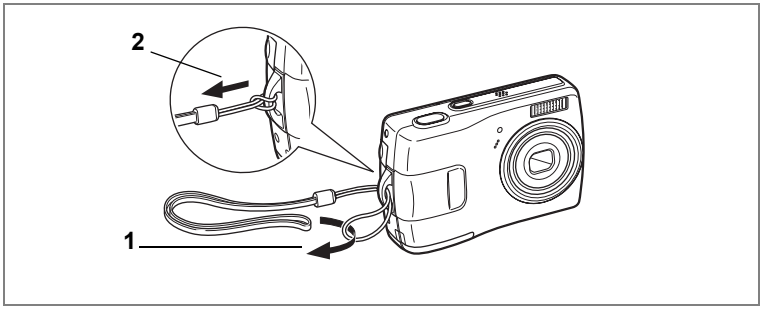
Attaching the Strap

Attach the strap (O-ST51) supplied with the camera.



1 **Pass the narrow end of the strap through the strap lug.**

2 **Pass the other end of the strap through the loop and pull tight.**

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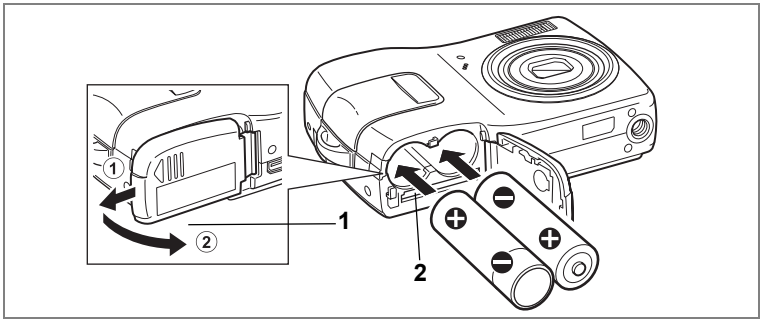

Installing the Batteries

Install the batteries into the camera. Use two AA alkaline, AA lithium, AA Ni-MH, or AA nickel manganese batteries.

1 Open the battery/card cover.

Pull the battery/card cover in the direction of ① and flip the cover open in the direction of ②.

2 Insert the batteries, making sure the (+) and (–) on the batteries match the (+) and (–) inside the battery compartment.

3 Close the battery/card cover and slide it back into place.

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Use the AC adapter kit K-AC51 (optional) if you intend to use the camera for a long time. (p.23)

- AA alkaline, AA lithium and AA nickel manganese batteries are not rechargeable.
- Do not open the battery/card cover or remove the batteries while the camera is turned on.
- If you do not intend to use the camera for a long time, remove the batteries. If the batteries are left in the camera for a long time, they may leak.
- If the batteries have been removed from the camera for a long time, when they are reinserted and the camera is turned on, the message [Battery depleted] may appear. This can also happen when using the camera for the first time; however this is not a malfunction. Wait a minute and then turn the camera on again to reset the camera. The date and time may also be reset.
- Insert the batteries correctly. If the batteries are incorrectly oriented, malfunction may result. Wipe the ends of the batteries and insert them into the camera.

- **Image Storage Capacity, Movie Recording Time, Sound Recording Time, and Playback Time**

(at 23°C with the LCD monitor on and fresh batteries inserted)

Number of recordable images and playback time for different types of batteries.

Battery Type	Image Storage Capacity*1	Movie Recording Time*2	Sound Recording Time*2	Playback Time*2
AA lithium batteries	700 pictures	300 min.	1340 min.	900 min.
AA NiMH batteries	460 pictures	200 min.	680 min.	640 min.
AA nickel manganese batteries	330 pictures	120 min.	630 min.	570 min.
AA alkaline batteries	220 pictures	90 min.	570 min.	500 min.

*1: Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with LCD monitor on, flash used for 50% of the shots, and 23 degrees centigrade). Actual performance may vary according to operating conditions.

*2: According to the result of in-house testing.

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Caution

- In general, battery performance may temporarily deteriorate as the temperature decreases. Be sure to take spare batteries when using the camera in a cold region and keep the batteries warm by placing them in your pocket or inside your coat. Battery performance that has deteriorated due to cold temperature will return to normal performance when the batteries reach room temperature.
- Due to their characteristics, AA alkaline batteries may not allow the camera to make full use of its capabilities, and therefore they are not recommended except for emergency use.
- Due to their characteristics, AA alkaline batteries and nickel manganese batteries may not allow the camera to make full use of its capabilities when used at cold temperatures. Use of AA lithium batteries is recommended when the camera is used at cold temperatures.
- Be sure to take spare batteries with you when traveling abroad or to a cold region, or if you intend to take a lot of pictures.

• Battery Level Indicator

You can check the battery level by the indicator on the LCD monitor.

Screen Display	Battery Status
(green)	Adequate power remains.
(green)	Batteries are running low.
(yellow)	Batteries are running very low.
(red)	Batteries are exhausted.
[Battery depleted]	The camera will turn off after this message appears.

Caution

Due to the characteristics of AA nickel manganese batteries, the battery level may not be displayed correctly when using these batteries. may be displayed for the battery level even if the batteries are running low. The camera may also turn off without warning even if is displayed.

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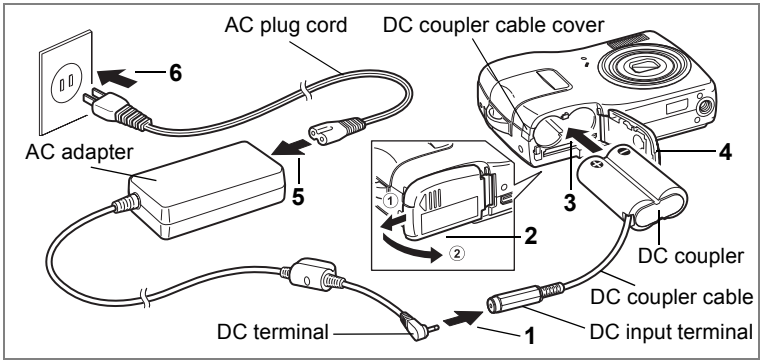

Using the AC Adapter with a Household Power Supply

Use of the AC adapter kit K-AC51 (optional) with a household power supply is recommended if you intend to use the camera for a long time or connect it to a computer.
(The AC adapter kit K-AC51 includes AC adapter D-AC5, DC coupler D-DC51, and AC plug cord D-CO2.)

1 Connect the DC terminal of the AC adapter to the DC input terminal of the DC coupler.

2 Make sure that the camera is turned off and open the battery/card cover.

Pull the battery/card cover in the direction of ① and flip the cover open in the direction of ②.

3 Insert the DC coupler into the battery compartment, making sure the (+) and (–) on the coupler match the (+) and (–) on the battery compartment.

4 Open the DC coupler cable cover, pass the DC coupler cable through the opening, and close the battery/card cover.

Slide the battery/card cover in the opposite direction of ①. Slide the battery/card cover all the way in to make sure it is securely closed.

5 Connect the AC plug cord to the AC adapter.

6 Plug the AC plug cord into the power outlet.

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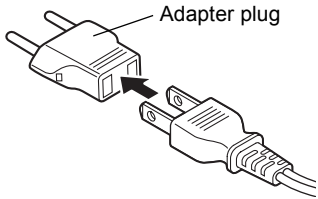
Caution
- Make sure that the camera is turned off before connecting or disconnecting the AC adapter.
- Make sure that the AC plug cord and the power cord connecting the AC adapter to the camera are inserted securely. The data may become lost if either cord becomes disconnected while data is being recorded.
- Use the AC adapter with due care to avoid fire or electric shock. Be sure to read “FOR SAFE USE OF YOUR CAMERA” (p.1) before using the AC adapter.
- Be sure to read the operation manual accompanying the AC adapter kit K-AC51 before using the adapter.

Using the AC Adapter Abroad

The AC adapter kit K-AC51 (optional) is designed to switch automatically to the voltage (100-240V) and frequency (50Hz, 60Hz) of the electricity supply in the country or region where used.
However, electrical socket shapes differ from country to country. Before traveling abroad, you are advised to check the socket shape in the country of your destination (see “Main Socket Types in the Major Countries and Regions of the World” (p.25)) and take an appropriately shaped adapter plug with you.



Caution
- Use of an off-the-shelf transformer may lead to defective operation.
- Unplug the adapter plug from the power outlet when not in use.

Type	A	B	BF	C	S
Shape					
Adapter plug	—				

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Main Socket Types in the Major Countries and Regions of the World

		A	B	BF	C	S
North America	U.S.A., Canada	✓				
Europe, Former Soviet Union	Iceland, Ireland, Italy, Ukraine, Austria, Netherlands, Kazakhstan, Greece, Sweden, Denmark, Germany, Norway, Hungary, Finland, France, Belarus, Belgium, Rumania, Russia				✓	
	U.K.		✓	✓		
	Spain	✓			✓	
	Switzerland, Poland, Portugal		✓		✓	
Asia	Taiwan, Japan	✓				
	Sri Lanka, Maldives		✓			
	Nepal, Bangladesh, Mongolia				✓	
	Vietnam	✓			✓	
	India, Indonesia, Pakistan, Macau		✓		✓	
	Thailand	✓		✓	✓	
	Korea	✓	✓		✓	
	Philippines	✓			✓	✓
	Singapore, Hong Kong		✓	✓		
	China	✓	✓	✓	✓	✓
	Malaysia		✓	✓	✓	
Oceania	Australia, Tonga, New Zealand, Fiji					✓
	Guam	✓				
	Tahiti				✓	
Central and South America	Colombia, Jamaica, Haiti, Panama, Bahamas, Puerto Rico, Venezuela, Mexico	✓				
	Brazil, Peru	✓			✓	
	Chile		✓		✓	
	Argentina			✓	✓	✓
Middle East	Israel, Iran				✓	
	Kuwait		✓		✓	
	Jordan		✓	✓		
Africa	Canary Islands, Guinea, Mozambique, Morocco				✓	
	Kenya, South Africa		✓		✓	
	Algeria	✓	✓	✓		
	Egypt		✓	✓	✓	
	Zambia, Tanzania		✓	✓		

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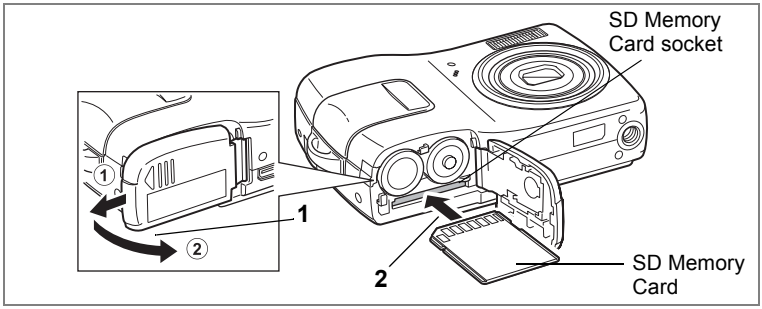
Installing the SD Memory Card



This camera uses an SD Memory Card. Captured images and sound files are saved on the SD Memory Card if a card is inserted in the camera. They are saved in the built-in memory if a card is not inserted. (p.32)

Caution

- **Be sure to use this camera to format an SD Memory Card that is unused or has been used on another camera. Refer to "Formatting an SD Memory Card or the Built-in Memory" (p.148) for instructions on formatting.**
- Make sure that the camera is turned off before inserting or removing the SD Memory Card.

memo

The still picture storage capacity varies depending on the capacity of the SD Memory Card and the selected number of recorded pixels and quality level. (p.29)

Backing Up Data

The camera may not be able to access data in the built-in memory in the case of a malfunction. Use a computer or other device to back up important data in another location.

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1 **Open the battery/card cover.**

Pull the battery/card cover in the direction of ① and flip the cover open in the direction of ②.

2 **Insert the SD Memory Card into the SD Memory Card socket so that the label is facing toward the LCD monitor.**

Push the card in until it clicks. Images and sound may not be recorded correctly if the card is not inserted all the way.

3 **Close the battery/card cover and slide it back into place.**

Removing the SD Memory Card

1 **Open the battery/card cover.**

2 **Push the card into the SD Memory Card socket to eject it.**

Pull the card out.

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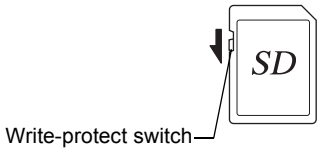
Precautions When Using an SD Memory Card



- The SD Memory Card is equipped with a write-protect switch. Setting the switch to LOCK protects the existing data by prohibiting recording of new data, deletion of existing data or formatting of the card. appears on the LCD monitor when the card is write-protected.
- Care should be taken when removing the SD Memory Card immediately after using the camera, as the card may be hot.
- Do not remove the SD Memory Card or turn the camera off while data is being saved to the card, images or sound files are being played back, or the camera is connected to a computer with the USB cable, as this may cause the data to be lost or the card to be damaged.
- Do not bend the SD Memory Card or subject it to violent impact. Keep it away from water and store away from high temperature.
- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- The data on the SD Memory Card may be deleted in the following circumstances. PENTAX does not accept any liability for data that is deleted
  (1) when the SD Memory Card is mishandled by the user.
  (2) when the SD Memory Card is exposed to static electricity or electrical interference.
  (3) when the card has not been used for a long time.
  (4) when the card is ejected or the batteries are removed while the data on the card is being recorded or accessed.
- The SD Memory Card has a limited service life. If it is not used for a long time, the data on the card may become unreadable. Be sure to regularly make a backup of important data on a computer.
- Avoid using or storing the card where it may be exposed to static electricity or electrical interference.
- Avoid using or storing the card in direct sunlight or where it may be exposed to rapid changes in temperature or to condensation.
- When using an SD Memory Card with a slow recording speed, recording may stop while you are taking movies even when there is adequate space in the memory, or shooting and playback may take a long time.
- For information on compatible SD Memory Cards, visit the PENTAX website or contact your nearest PENTAX Service Center.

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Recorded Pixels and Quality Level of Still Pictures

Choose the number of pixels (size) and quality level (data compression rate) of still pictures according to how you intend to use the pictures you have taken.
Higher quality levels and numbers of pixels produce clearer images, but the resulting increase in data volume reduces the total number of pictures that can be taken (stored in the camera's built-in memory or on the SD Memory Card).
The quality of the captured photo or printed picture also depends on the quality level, exposure compensation, resolution of the printer and a variety of other factors, so you do not need to select more than the required number of pixels. As a rough guide, 2M (1600×1200) is adequate for making postcard-size prints. Refer to the table below for the appropriate settings according to use.

● Appropriate Number of Recorded Pixels According to Use

Recorded Pixels		Use
7M	3072×2304	For printing high quality photos or A4-size pictures, or editing images on a PC.
5M	2560×1920	
4M	2304×1728	
3M	2048×1536	
2M	1600×1200	For making postcard-size prints.
1024	1024× 768	
640	640× 480	For posting on a website or attaching to e-mail.

Clearer ↑

The default setting is 7M (3072×2304).

● Appropriate Quality Level According to Use

★★★	Best	Lowest compression rate. Suitable for photo prints.
★★	Better	Standard compression rate. Suitable for viewing the image on a computer screen.
★	Good	Highest compression rate. Suitable for posting on a website or attaching to e-mail.

The default setting is ★★ (Better).

Choose the appropriate number of recorded pixels and quality level for still pictures on the [📷 Rec. Mode] menu.

Selecting the Recorded Pixels ☞p.83

Selecting the Quality Level ☞p.85

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● **Recorded Pixels, Quality Level and Image Storage Capacity**

(Approximate numbers of pictures)

	★★★ (Best)		★★ (Better)		★ (Good)	
	Built-in Memory	128MB	Built-in Memory	128MB	Built-in Memory	128MB
7M 3072×2304	6	35	12	69	18	103
5M 2560×1920	8	49	17	95	24	137
4M 2304×1728	11	62	22	124	31	178
3M 2048×1536	13	77	27	153	40	223
2M 1600×1200	22	124	36	206	54	301
1024 1024× 768	43	244	73	412	93	522
640 640× 480	87	489	127	712	175	979

- The above figures may vary depending on the subject, shooting conditions, shooting mode and SD Memory Card, etc.

Recorded Pixels, Quality Level and Frame Rate of Movies

Choose the recorded pixels and frame rate (number of frames per second) according to how you intend to use the movies you have taken. The higher the number of recorded pixels, the clearer the details, but the bigger the file size.
The more frames per second, the better the quality of the movie, but the bigger the file size.
Choose the appropriate number of recorded pixels and frame rate in [Movie] on the [📷 Rec. Mode] menu.

Selecting the Recorded Pixels for Movies ☞p.100

Selecting the Quality Level of Movies ☞p.102

Selecting the Frame Rate ☞p.103

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● Appropriate Number of Recorded Pixels According to Use

640 (640×480)	Suitable for viewing on a TV or computer screen.
320 (320×240)	Suitable for posting on a website or attaching to e-mail.

The default setting is 640 (640×480).

● Appropriate Quality Level According to Use

★★★	Best	↕	Images will be clearer but file size will be larger.
★★	Better		
★	Good		Images will be grainier but file size will be smaller.

The default setting is ★★★ (Best).

● Appropriate Frame Rate According to Use

30fps	Produces high quality movies, but reduces the total recording time.
15fps	Increases the total recording time because the file size is smaller.

The default setting is 30fps (frames per second).

● Recorded Pixels, Quality Level, Frame Rate and Recording Time

(Approximate recording time)

		30fps		15fps		Sound	
		Built-in Memory	128MB	Built-in Memory	128MB	Built-in Memory	128MB
640 (640×480)	★★★	20 sec.	1 min. 56 sec.	41 sec.	3 min. 50 sec.	17 min. 23 sec.	1 hr. 36 min. 58 sec.
	★★	28 sec.	2 min. 36 sec.	54 sec.	5 min. 1 sec.		
	★	42 sec.	3 min. 57 sec.	1 min. 22 sec.	7 min. 40 sec.		
320 (320×240)	★★★	33 sec.	3 min. 6 sec.	1 min. 3 sec.	5 min. 55 sec.		
	★★	45 sec.	4 min. 12 sec.	1 min. 27 sec.	8 min. 9 sec.		
	★	1 min. 3 sec.	5 min. 55 sec.	2 min. 7 sec.	11 min. 51 sec.		

- The above figures are based on PENTAX standard shooting conditions and may vary depending on the subject, shooting conditions and type of SD Memory Card used.

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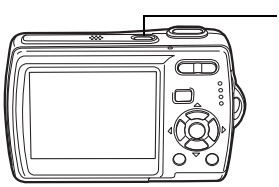
Turning the Camera On and Off



1 Press the power switch.

The camera turns on and the LCD monitor turns on.
When you turn the camera on, the lens cover opens and the lens extends.
If the Language Selection screen or Date Adjust screen appears when you turn the camera on, follow the procedure on p.34 to set the display language and/or current date and time.

2 Press the power switch again.

The LCD monitor turns off, the lens closes, and the camera turns off.

Taking Pictures ☞p.61

Checking the Memory Card

The memory card is checked automatically when the camera turns on. appears on the LCD monitor when there is no SD Memory Card inserted in the camera. In this case, images and sound files will be saved in the built-in memory. appears instead of when the write-protect switch on the SD Memory Card is in the locked position. Images and sound cannot be recorded when the write-protect switch is locked.

Memory status

If the batteries have been removed from the camera for a long time, when they are reinserted and the camera is turned on, the message [Battery depleted] may appear. This can also happen when using the camera for the first time; however this is not a malfunction. Wait a minute and then turn the camera on again to reset the camera. The date and time and other settings may also be reset. Follow the procedure on p.37 to set these settings again.

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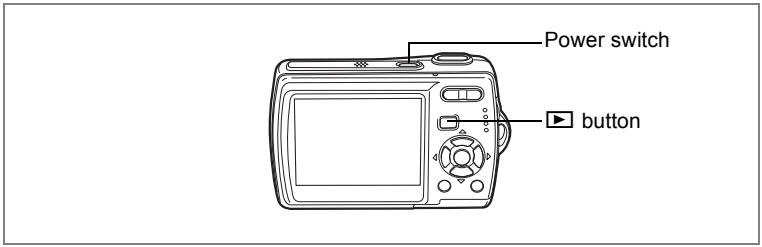

Playback Only Mode

Playback Only Mode is the Playback Mode when the lens is closed. Use this mode when you want to play back an image or sound file straightaway without taking any more pictures. Pressing the shutter release button does not change the mode to 📷 mode.

1 Press the power switch while holding down the ▶ button.

The LCD monitor turns on while the lens is closed and the camera turns on in Playback Only Mode.

memo To switch from Playback Only Mode to 📷 mode, turn the camera off and then turn it on again.

Playing Back Still Pictures ☞p.41

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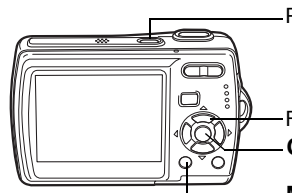
Initial Settings

Set the language, time, and date after purchasing the camera before you start taking pictures.

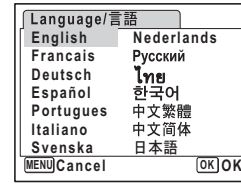


The Language/言語 screen appears when the camera is turned on for the first time. Perform the operations in “Setting the Display Language” below to set the language, and in “Setting the Date and Time” (p.37) to set the current date and time.
Go to “Setting the Date and Time” (p.37) when the Date Adjust screen appears.

> Language, Date, and Time can be changed. Refer to the pages below for instructions.
> - To change the language, follow the steps in “Changing the Display Language” (☞p.155).
> - To change the date and time, follow the steps in “Changing the Date and Time” (☞p.151).

Setting the Display Language

1 Use the four-way controller (▲▼◄►) to choose the display language.



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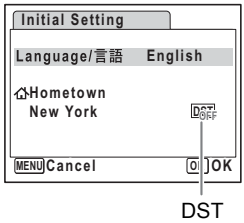
2 Press the OK button.

The Initial Setting screen appears in the selected language. If the desired settings for [Hometown] and daylight saving time appear, press the **OK** button again to display the [Date Adjust] screen. Go to “Setting the Date and Time” (p.37 - p.38). Go to Step 4 in "Setting Hometown and DST" if the desired settings do not appear.



If you accidentally select another language and go to the next procedure, perform the following operation to set the language back.

● **When Another Language Has Been Inadvertently Selected**

1 Press the four-way controller (▶).

2 Use the four-way controller (▲▼◀▶) to select the language and press the OK button.

● **When the Screen After Step 2 Appears in Another Language**

1 Press the OK button.

2 Press the MENU button.

3 Press the four-way controller (▶).

4 Use the four-way controller (▼▲) to select [Language/ 言語].

5 Press the four-way controller (▶).

The Language/言語 screen appears.

6 Use the four-way controller (▲▼◀▶) to select the language.

7 Press the OK button.

The [Setting] menu appears in the selected language.

The language is now switched to your desired language. To reset Hometown and the Date and Time, refer to the pages below for instructions.

- To change Hometown, follow the steps in “Setting the World Time” (p.153).
- To change the Date and Time, follow the steps in “Changing the Date and Time” (p.151).

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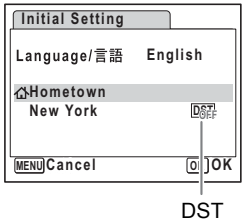
3 **Press the four-way controller (▼).**

The frame moves to [Hometown].

4 **Press the four-way controller (▶).**

The Hometown screen appears.

5 **Use the four-way controller (◀▶) to choose the city.**



DST

6 **Press the four-way controller (▼).**

The frame moves to [DST] (Daylight Saving Time).

7 **Use the four-way controller (◀▶) to select □ (Off).**

8 **Press the OK button.**

The Initial Setting screen appears.

9 **Press the OK button.**

The Date Adjust screen appears. Next, set the date and time.

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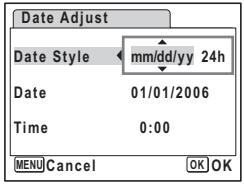
Setting the Date and Time

Set the current date and time and the display style.

1 **Press the four-way controller (▶).**

The frame moves to [mm/dd/yy].

2 **Use the four-way controller (▲▼) to choose the date and time display style.**



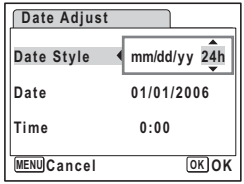
3 **Press the four-way controller (▶).**

The frame moves to [24h].

4 **Use the four-way controller (▲▼) to select [24h] (24-hour display) or [12h] (12-hour display).**

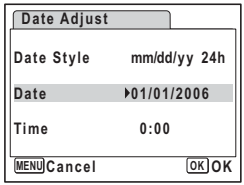
5 **Press the four-way controller (▶).**

The frame returns to [Date Style].



6 **Press the four-way controller (▼).**

The frame moves to [Date].



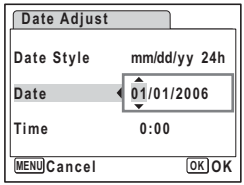
7 **Press the four-way controller (▶).**

The frame moves to the month.

8 **Use the four-way controller (▲▼) to change the month.**

Change the day and year in the same manner. Next, change the time.

If you selected [12h] in Step 4, the setting switches between am and pm corresponding to the time.



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9 Press the OK button.

The camera returns to capture status.

Language, Date, Time, Hometown, and DST can be changed. Refer to the pages below for instructions.
- To change the language, follow the steps in “Changing the Display Language” (☞p.155).
- To change the date and time, follow the steps in “Changing the Date and Time” (☞p.151).
- To change the city or turn DST on and off, follow the steps in “Setting the World Time” (☞p.153).

Caution When the Initial Setting or Date Adjust screen is displayed, you can cancel the setting operation and switch to Capture mode by pressing the **MENU** button. In this case, the Initial Setting screen will appear next time you turn the camera on.

memo If you press the **OK** button in Step 9, the camera clock is reset to 00 seconds. To set the exact time, press the **OK** button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

The video output format (NTSC/PAL) is automatically set according to the City set for [Hometown] in initial settings. Refer to the pages below for the video output settings and instructions on how to change the video output setting after initial settings.
- To see the video output format set in initial settings, refer to “List of World Time Cities” (p.164).
- To change the video output format after initial settings, refer to “Changing the Video Output Format” (p.158).

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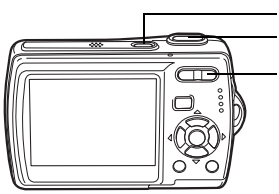
Taking Still Pictures

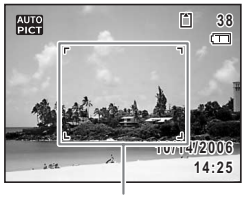


The standard procedure for taking still pictures is described below. The flash fires automatically depending on the light conditions.

1 Press the power switch.

The camera turns on and is ready to take still pictures. In this manual, this is called Still Picture Capture Mode.

2 Confirm the subject and shooting information on the LCD monitor.



Focus frame

The focus frame in the middle of the LCD monitor indicates the zone of automatic focusing.
You can change the captured area by pressing the Zoom/ / button to the left or right.

: enlarges the subject

: widens the area that is captured by the camera

3 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

4 Press the shutter release button fully.

The picture is taken.
The image appears on the LCD monitor for one second (Instant Review) and is saved to the SD Memory Card or built-in memory. (p.40)

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- The shooting mode is set to AUTO PICT (Auto Picture mode) in the default settings. (p.61) Turn the power on to enable taking still pictures in AUTO PICT mode.
- Press the Green button to switch to the Green Mode and let the camera set all the shooting functions automatically. (p.64)

Using the Shutter Release Button

The shutter release button works in a two-step action as follows.

Press halfway

The focus and exposure are locked when the shutter release button is pressed halfway. The green focus frame lights on the LCD monitor when the shutter release button is pressed halfway and the subject is in focus. If the subject is out of focus, the frame will light red.

Press fully

Press the shutter release button all the way down to take the picture.

[Poor focusing conditions]

The camera may not be able to focus under the following conditions. In this case, lock the focus on an object the same distance away as the subject (by pressing the shutter release button halfway), then aim the camera at your subject and press the shutter release button fully.

- Objects that lack contrast such as a blue sky or white wall
- Dark places or objects, or conditions that prevent light being reflected back
- Horizontal lines or intricate patterns
- Fast moving objects
- When there is an object in the foreground and an object in the background in the same picture
- Strongly reflected light or strong backlighting (bright background)

Instant Review

The image appears on the LCD monitor for one second (Instant Review) immediately after it is captured. You can change the Instant Review time. (p.92)

You can delete the image during Instant Review by pressing the 🗑 button.

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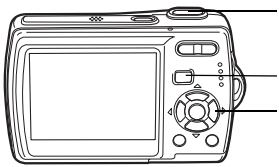
Playing Back Still Pictures



Playing Back Images

1 Press the ▶ button after taking a picture.

The image appears on the LCD monitor. In this manual, this is called ▶ mode (Playback mode). Displaying one image in full in ▶ mode (▶ mode default setting) is called single-image display.
Press the ▶ button again in ▶ mode or press the shutter release button halfway to switch to 📷 mode.

Playing Back the Previous or Next Image

1 Press the ▶ button after taking a picture.

The image appears on the LCD monitor.

2 Press the four-way controller (◀▶).

The previous or next image appears.

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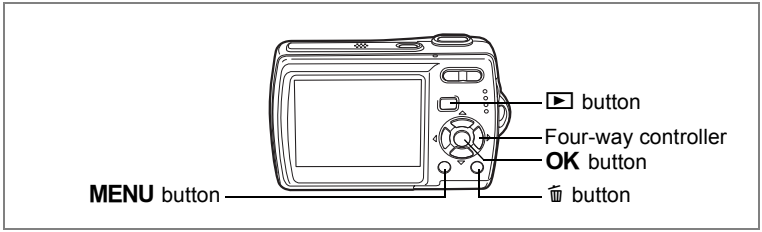
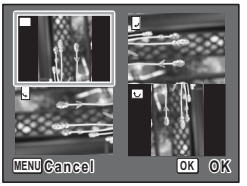


Rotating the Displayed Image

1 Press the button after taking a picture.
The image appears on the LCD monitor.

2 Press the four-way controller (▼).
The Playback Mode Palette appears.

3 Use the four-way controller (▲▼◀▶) to select ♢ (Image Rotation).
The rotation selection screen (0°, Right 90°, Left 90°, or 180°) appears.



4 Use the four-way controller (▲▼◀▶) to choose the rotation direction and press the OK button.
The rotated image appears.

memo

- Movies cannot be rotated.
- Protected images can be rotated, but they cannot be saved in a rotated state.

Deleting the Displayed Image

Press the 🗑 button while the image is displayed to display the Delete screen. Use the four-way controller (▲) to select [Delete] and press the **OK** button. (p.117)

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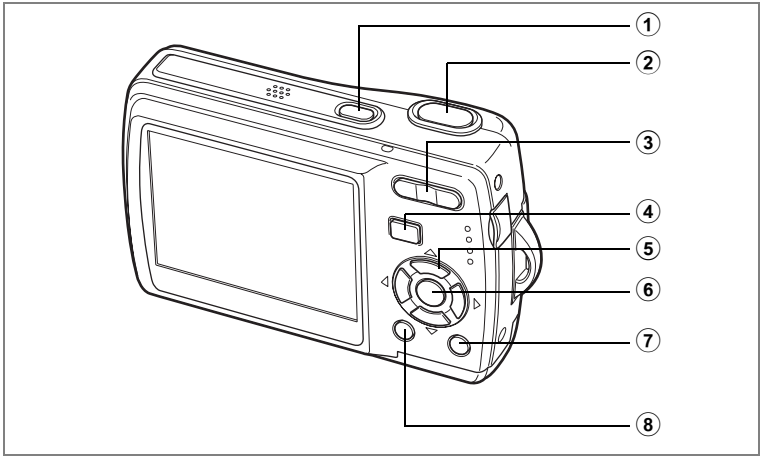
Understanding the Button Functions



Mode

① **Power switch**
Turns the camera off. (p.32)

② **Shutter release button**
Focuses the camera on the subject when pressed halfway in Still Picture Capture Mode. (Except in ▲, **PF** and **MF** modes) (p.39)
Takes the still picture when pressed down fully. (p.39)
Starts and stops movie recording in 🎥 mode. (p.98)
Starts and stops sound file recording in 🎙 mode. (p.143)

③ **Zoom/▲▲▲/▲/▪▪/🔍 button**
Changes the captured area. (p.74)

④ **▶ button**
Switches to the ▶ mode. (p.106)

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⑤ **Four-way controller**

(▲) : Changes the drive mode. (p.72, p.73)
(▼) : Displays the Capture Mode Palette. (p.52)
(◀) : Changes the flash mode. (p.81)
(▶) : Changes the focus mode. (p.79)
(▲▼) : Adjusts **MF** in **MF** mode. (p.80)

⑥ **OK/DISPLAY button**

Changes the information displayed on the LCD monitor. (p.77)

⑦ **Green button**

Switches to the Green Mode. (p.64)
Calls up the assigned menu. (p.56)

⑧ **MENU button**

Displays the [📷 Rec. Mode] menu. (p.47)

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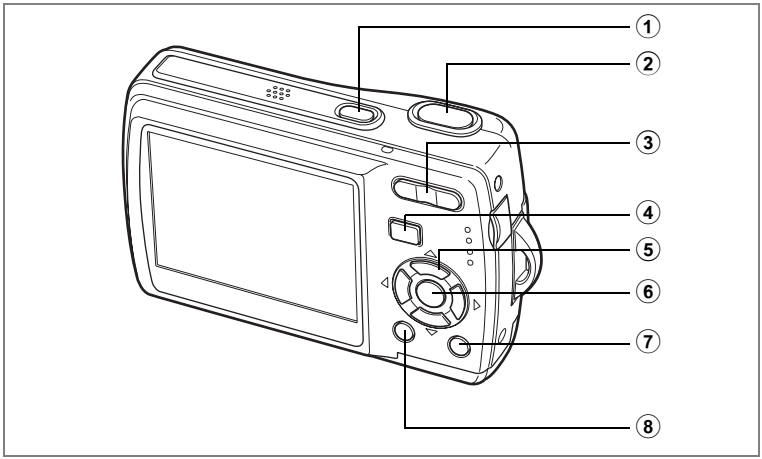

Mode

① **Power switch**
Turns the camera off. (p.32)

② **Shutter release button**
Switches to 📷 mode when pressed halfway. (p.106)

③ **Zoom/▪/🔍 button**
Press ▪ during single-image display to change to nine-Image display. Returns to the previous display when 🔍 is pressed. (p.108)
Enlarges the image when 🔍 is pressed during single-image display. Returns to the previous display when ▪ is pressed. (p.110)
Press ▪ during nine-image display to change to folder or calendar display. (p.109)
Press 🔍 during folder display to change to nine-image display of the selected folder. (p.109)
Press 🔍 during calendar display to change to nine-image display for the selected date. (p.109)
Can be used to adjust the volume during playback of movies or sound files. (p.115, p.145)

④ **▶ button**
Switches to 📷 mode. (p.106)

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⑤ Four-way controller

(▲) : Plays back and pauses a movie or sound file. (p.115, p.145)

(▼) : Displays the Playback Mode Palette. (p.59)
Stops a movie or sound file during playback. (p.115, p.145)

(◀ ▶) : Displays the previous or next image and sound file during single-image display. (p.41)
Frame forwards, frame reverses and reverses a movie during playback. (p.115)
Fast forwards, reverses, and moves to the index in sound file playback. (p.145)

(▲▼◀▶) : Moves the display area during zoom display. (p.110)
Selects an image in nine-image display, a folder in folder display, and a date in calendar display. (p.108, p.109)
Moves the image when using the Frame Composite function. (p.131)

⑥ OK/DISPLAY button

Changes the information displayed on the LCD monitor. (p.112)
Returns zoom display or nine-image display to single-image display. (p.108, p.110)
Changes to nine-image display of the selected folder during folder display. (p.109)
Changes to single-image display of the selected date during calendar display. (p.109)

⑦ Green/🗑 button

Switches from single-image display to the Delete screen. (p.117)
Switches from nine-image display to the Select & Delete screen. (p.119)
Switches from folder display to the calendar display screen. (p.109).
Switches from calendar display to the folder display screen. (p.109)

⑧ MENU button

Displays the [Setting] menu during single-image display. (p.47)
Returns to single-image display during Playback Mode Palette display. (p.58)
Returns zoom display or nine-image display to single-image display. (p.108, p.110)
Changes to nine-image display of the selected folder during folder display. (p.109)
Changes to nine-image display of the selected date during calendar display. (p.109)

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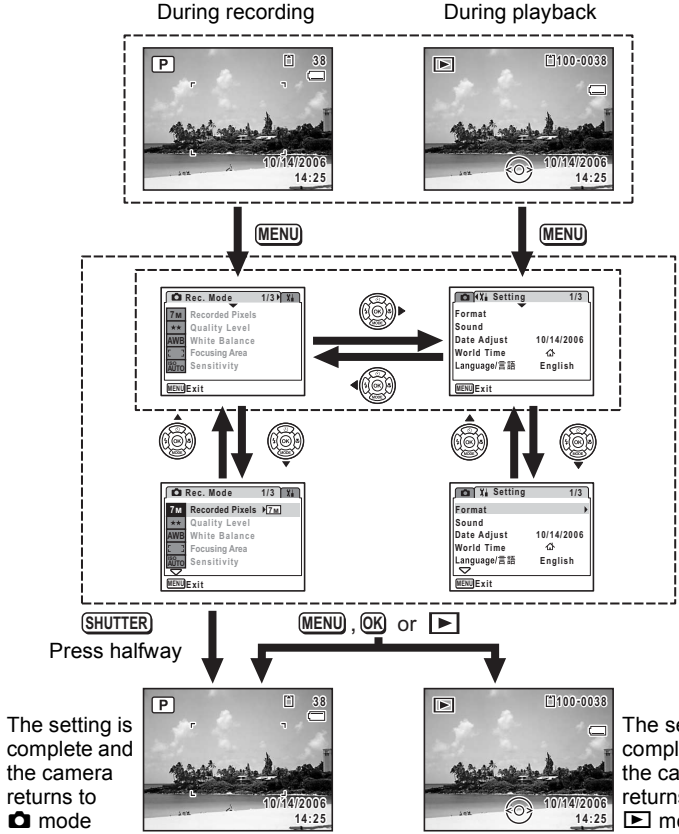
To change the camera settings, press the **MENU** button to display the [📷 Rec. Mode] menu or [🔧 Setting] menu. Menus for playing back and editing images and sound files are displayed from the Playback Mode Palette.

Setting with the Menus

Pressing the **MENU** button in 📷 mode displays the [📷 Rec. Mode] menu. Pressing the **MENU** button in ▶ mode displays the [🔧 Setting] menu.



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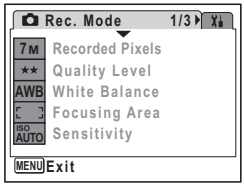
memo A guide to available button operations appears on the LCD monitor during menu operation.

Ex.) To set the [Quality Level] on the [📷 Rec. Mode] menu

1 Press the MENU button in 📷 mode.

The [📷 Rec. Mode] menu appears.

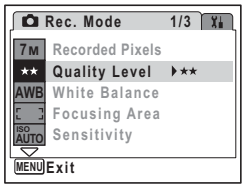


2 Press the four-way controller (▼).

The frame moves to [Recorded Pixels].

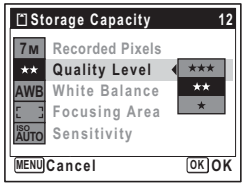
3 Press the four-way controller (▼).

The frame moves to [Quality Level].



4 Press the four-way controller (▶).

A pull-down menu appears with the items that can be selected.
The pull-down menu displays only those items that can be selected with the current camera settings.



5 Use the four-way controller (▲▼) to change the setting.

The quality level changes each time the four-way controller (▲▼) is pressed.

Refer to the following page for instructions on saving settings and canceling changes.

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Saving the Setting and Start Taking Pictures

6 Press the shutter release button halfway.

The setting is saved and the camera returns to capture status.
When the shutter release button is pressed fully, the picture is taken.

Saving the Setting and Begin Playback of Images

6 Press the ▶ button.

The setting is saved and the camera returns to playback status.

Saving the Setting and Continue with Menu Operations

6 Press the OK button or the four-way controller (◀).

The setting is saved and the screen returns to Step 3.

Canceling the Changes and Continue with Menu Operations

6 Press the MENU button.

The changes are canceled and the screen returns to Step 3.

The **MENU** button function differs depending on the screen. Refer to the guide indications.

MENU Exit : Exits the menu and returns to the original screen.
MENU ↩ : Returns to Step 3 with the current setting.
MENU Cancel : Cancels the current selection, exits the menu and returns to Step 3.

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Menu List

This displays the items that can be set with the menus and provides descriptions of each item. See the list of default settings in the Appendix "Default Settings" (p.166) to decide whether you want the settings saved when the camera is turned off and whether you want the settings returned to the defaults when the camera is reset.

[📷 Rec. Mode] Menu

This menu shows the functions related to taking still pictures and recording movies.

Item		Description	Page
Recorded Pixels		For choosing the number of recorded pixels of still pictures	p.83
Quality Level		For choosing the quality level of still pictures	p.85
White Balance		For adjusting the color balance according to the light conditions	p.87
Focusing Area		For changing the area of the autofocus	p.89
Sensitivity		For setting the sensitivity	p.90
EV Compensation		For adjusting the overall brightness of the picture	p.76
Movie	Recorded Pixels	For choosing the number of recorded pixels of movies	p.100
	Quality Level	For choosing the quality level of movies	p.102
	Frame Rate	For setting the frame rate (number of frames per second)	p.103
	Color Mode	For choosing a color mode for movies	p.104
	Movie anti-shake	For choosing whether to use the movie anti-shake function	p.105
Digital Zoom		For choosing whether to use the digital zoom function	p.75
Instant Review		For setting the Instant Review time	p.92
Memory		For choosing whether to save the set values of the shooting function or return to the defaults when the camera is turned off	p.96
Sharpness		For choosing sharp or soft outlines	p.93
Saturation		For setting the color saturation	p.94
Contrast		For setting the image contrast level	p.95

memo

- Use the Green Mode to enjoy easy picture-taking using standard settings, regardless of the settings in the [📷 Rec. Mode] menu. (p.64)
- You can save time by assigning frequently used menus to the Green button. (p.56)

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[Setting] Menu

Item	Description	Page
Format	For formatting the SD Memory Card or built-in memory	p.148
Sound	For adjusting the playback volume and setting the start-up sound, shutter sound, key operation sound and self-timer sound	p.149
Date Adjust	For adjusting the date, time, and date and time styles	p.151
World Time	For setting the world time	p.153
Language/言語	For setting the language in which menus and messages appear	p.155
Folder Name	For choosing how names are assigned to folders for storing images and sound files	p.156
USB Connection	For setting the USB cable connection (to PC or printer)	p.157
Video Out	For setting the output format to the AV equipment	p.158
Auto LCD Dimmer	For automatically adjusting the brightness of the LCD monitor according to the surrounding brightness	p.159
Auto Power Off	For setting the time until the camera turns off automatically	p.160
Quick Zoom	For displaying an image at maximum magnification by pressing 🔍 on the Zoom/▪/🔍 button during still picture playback	p.111
Green Button	For assigning a function to the Green button in Capture mode	p.56
Guide Display	For setting to display guides when an icon is selected in Capture Mode Palette and Playback Mode Palette.	p.161
Reset	For returning settings other than the date and time, language, and video out to their defaults	p.162

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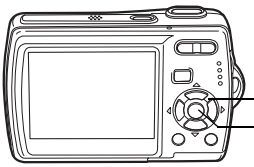


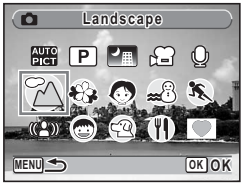
Setting the Shooting Mode

The Optio M20 has a variety of shooting modes that let you take pictures or record movies and sound in different situations simply by choosing the right mode for the particular situation from the Capture Mode Palette.

1 Press the four-way controller (▼) in 📷 mode.

The Capture Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to choose a shooting mode.



A guide of the selected shooting mode appears after approximately two seconds when a shooting mode is selected. (p.60) You can also set to hide the guides. Refer to "Setting the Guide Display" (p.161) for instructions.

3 Press the OK button.

The shooting mode is selected and the camera returns to capture status.

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- In shooting modes other than P, , , and , the flash, focus, saturation, contrast, sharpness, white balance, etc. are automatically set to the optimal settings for each mode.
- Some functions may not be available or may not function fully depending on the shooting mode. For details, refer to “Functions Available for Each Shooting Mode” (p.169).
- The Capture Mode Palette does not appear even if you press the four-way controller (▼) when Focus Mode is set to **MF** and focus position is being adjusted (p.80).

There are 15 available shooting modes.

① **Auto Picture**
Selects the best capture mode. (p.61)

② **Program**
The basic picture-taking mode. You can let the camera set the functions or choose various functions yourself. (p.62)

③ **Night Scene**
Ideal for taking night views. It is best to use a tripod in this mode. Use the flash if including people in your picture. (p.66)

④ **Movie**
Use this mode for taking movies. Sound is recorded at the same time. (p.98)

⑤ **Voice Recording**
Use this mode to record sound files. Be careful not to cover the microphone with your hand. (p.143)

⑥ **Landscape**
Use this mode for taking landscape views. The depth of field encompasses a wide area.

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⑦ **Flower**

Use this mode for taking bright, colorful pictures of flowers with soft outlines.

⑧ **Portrait**

Use this mode for taking pictures of people. Gives your subject a bright, healthy look.

⑨ **Surf & Snow**

For capturing images with dazzling backgrounds, such as beaches or snowy mountains.

⑩ **Sport**

Ideal for taking fast-moving action shots. The camera keeps the moving subject in focus until the shutter release button is pressed.

⑪ **Blur reduction**

Uses higher sensitivity to reduce blur when taking pictures. (p.63)

⑫ **Kids**

Ideal for taking pictures of children who are moving around. Gives your subject a bright, healthy look.

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⑬ **Pet**

Ideal for taking pictures of pets. The camera keeps the moving pet in focus until the shutter release button is pressed. You can select settings according to the color of your pet's coat. (p.71)

⑭ **Food**

Use this mode for taking pictures of food. The increased saturation gives pictures a bright, vivid finish.

⑮ **Frame Composite**

Use this mode to take pictures with a frame. The number of recorded pixels is fixed at 3M. (p.67)

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Calling Up a Specific Menu

Assign menu items to the Green Button and recall these quickly by simply pressing the Green Button. This is useful for going straight to the setting screens of frequently used functions such as EV Compensation, Sensitivity and White Balance.

- The following functions can be assigned to the Green button: Green Mode, Recorded Pixels, Quality Level, White Balance, Focusing Area, Sensitivity, EV Compensation, Sharpness, Saturation and Contrast.
- The default setting is Green Mode.
- The Green Button setting can be returned to the default setting by selecting [Reset] on the [Setting] menu.
- The functions assigned to the Green button can also be used in the usual manner on the original menus ([Rec.Mode] and [Setting]).
- You cannot save different settings for the same function on the Green button and on the original menu.

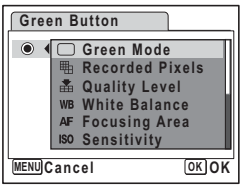
Assigning a Function to the Green Button

1 **Select [Green Button] on the [Setting] menu.**

2 **Press the four-way controller (▶).**

The Green Button screen appears.

3 **Use the four-way controller (▲▼) to choose the function you want to set and press the OK button.**



4 **Press the MENU button.**

The camera returns to capture status with the current setting.

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Using the Green Button

1 Press the Green button in mode.

The function assigned to [Green Button] on the [Setting] menu is called up.

The function assigned to Green button

2 Use the four-way controller (◀▶) to change the settings and press the OK button.

The camera returns to capture status.

memo

- If the Green Mode has been assigned to the Green button, the camera enters the Green Mode (p.64) 1.5 seconds after the Green button is pressed.
- If a function other than the Green Mode has been assigned to the Green button, the camera returns to the original screen if no operation is performed for five seconds after the Green button is pressed.

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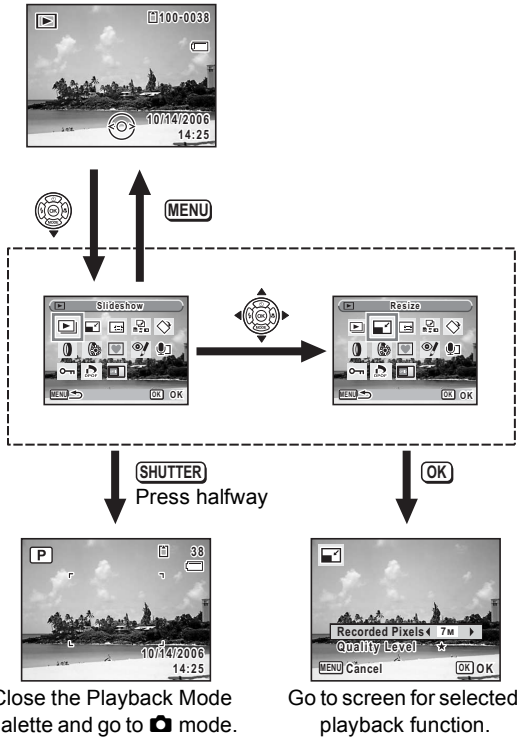
Setting the Playback Mode

Press the four-way controller (▼) in Playback mode to display the Playback Mode Palette.
You can display the playback function you want to use simply by using the four-way controller (▲▼◄►) to choose an icon and pressing the **OK** button.



Close the Playback Mode Palette and go to 📷 mode.

Go to screen for selected playback function.

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Playback Mode Palette

Item		Description	Page
	Slideshow	For playing back recorded images one after another	p.113
	Resize	For changing the recorded pixels and quality of images	p.124
	Trimming	For deleting the unneeded part of a picture	p.126
	Image/Sound Copy	For copying images and sound files from the built-in memory to the SD Memory Card and vice versa.	p.127
	Image Rotation	For rotating still pictures	p.42
	Digital Filter	For changing the color of still pictures	p.129
	Brightness Filter	For changing the brightness of still pictures	p.130
	Frame Composite	For adding a decorative frame to a still picture	p.131
	Red-eye Compensation	For correcting still pictures where the flash has caused the subject to appear with red eyes	p.133
	Voice Memo	For adding a voice memo to still pictures	p.146
	Protect	For protecting images and sound files from accidental deletion	p.122
	DPOF	For setting the DPOF print order data for still pictures	p.134
	Start-up Screen	For setting the start-up screen	p.163

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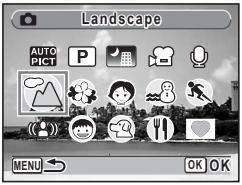
Viewing a Guide of the Shooting and Playback Modes

When Guide Display (p.161) is set to ☑ (On), a guide of the mode selected in the Capture Mode Palette or Playback Mode Palette appears.

1 Press the four-way controller (▼) in 📷 mode.

The Capture Mode Palette appears.
Press the four-way controller (▼) in ▶ mode to display the Playback Mode Palette.

2 Use the four-way controller (▲▼◀▶) to choose a shooting mode.



Choose a Playback Mode if the camera is in ▶ mode.
A guide of the selected mode appears after approximately two seconds when a mode is selected.

3 Press the OK button.

The camera returns to capture status with the selected shooting mode.
The setting screen for the selected Playback Mode is displayed if the camera is in ▶ mode.

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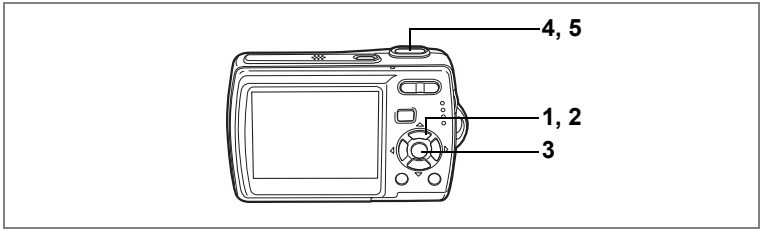
Taking Pictures



AUTO PICT

Letting the Camera Choose the Optimal Shooting Mode (Auto Picture Mode)

In AUTO PICT (Auto Picture mode), when you press the shutter release button, the camera selects the most appropriate mode from four capture modes: ☺ (Normal mode), (Night Scene mode), (Landscape mode), and (Portrait mode).

1 **Press the four-way controller (▼) in 📷 mode.**

The Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select AUTO PICT (Auto Picture).**

3 **Press the OK button.**

The shooting mode is selected and the camera returns to capture status.

4 **Press the shutter release button halfway.**

The focus frame on the LCD monitor will light green when the camera is in focus, and the selected mode icon will appear on the top left of the LCD monitor.

5 **Press the shutter release button fully.**

memo

- In AUTO PICT mode, the exposure is fixed to ±0.0. (p.76)
- In AUTO PICT mode, [Focusing Area] is set to Multiple. (p.89)
- The continuous shooting function is not available in AUTO PICT mode.
- The shooting mode is set to AUTO PICT mode in the default settings.

Taking Still Pictures ☞p.39

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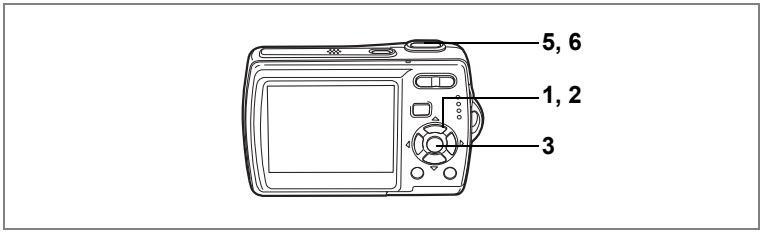

P

Letting the Camera Choose the Optimal Settings (Program Mode)

In P (Program mode), the camera automatically sets the shutter speed and aperture for taking still pictures. However, you can select other functions such as the flash mode and recorded pixels.

1 **Press the four-way controller (▼) in 📷 mode.**

The Capture Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select P (Program).**

3 **Press the OK button.**

The shooting mode is selected and the camera returns to capture status.

4 **Set the functions you want to use.**

Refer to “Setting the Shooting Functions” (p.79 - p.95) for details of how to set the functions.

5 **Press the shutter release button halfway.**

The focus frame on the LCD monitor turns green if the subject is in focus.

6 **Press the shutter release button fully.**

The picture is taken.

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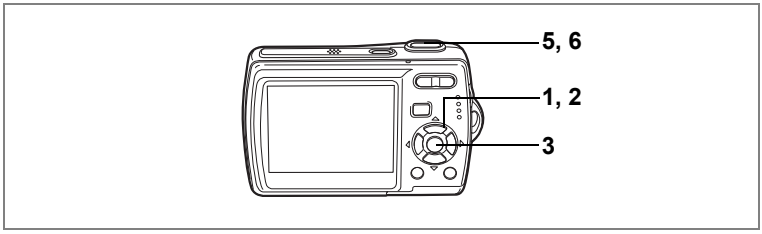


(( ))

Reducing Camera Shake and Blurring when Taking Pictures (Blur Reduction Mode)

In (( )) (Blur Reduction mode), the camera automatically raises the sensitivity to reduce camera shake and blurring when taking pictures. The camera also sets the shutter speed (set to remain faster than 1/15 sec) and aperture automatically. However, you can select other functions such as the flash mode and recorded pixels.

1 **Press the four-way controller (▼) in mode.**

The Capture Mode Palette appears.

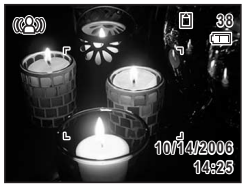
2 **Use the four-way controller (▲▼◄►) to select (( )) (Blur reduction).**

3 **Press the OK button.**

The shooting mode is selected and the camera returns to capture status.

4 **Set the functions you want to use.**

Refer to “Setting the Shooting Functions” (p.79 - p.95) for details of how to set the functions.



5 **Press the shutter release button halfway.**

The focus frame on the LCD monitor turns green if the subject is in focus.

6 **Press the shutter release button fully.**

The picture is taken.

memo When shooting mode is set to (( )), the sensitivity is automatically adjusted to between 64 and 1600. (p.91)

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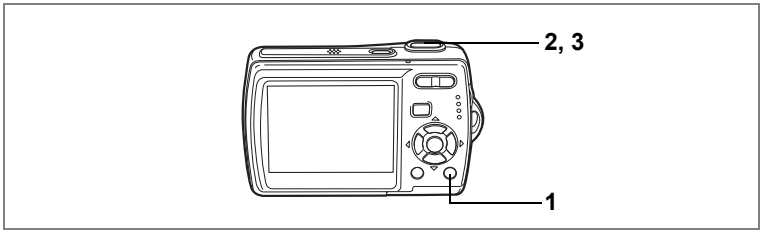

Taking Pictures in the Basic Mode (Green Mode)

In the Green Mode, you can enjoy easy picture-taking using standard settings*, regardless of the settings in the [📷 Rec. Mode] menu.

1 Press the Green button in 📷 mode.

The camera switches to the Green Mode. Press the Green button again to return to the status before the Green Mode was selected.

2 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

3 Press the shutter release button fully.

The picture is taken.

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- If any other functions have been assigned to the Green button, the camera does not switch to Green Mode. The assigned function is displayed. (p.56)
- In Green Mode, you cannot change the information displayed on the LCD monitor by pressing the **OK**/**DISPLAY** button.
- You cannot use the [Rec. Mode] menu or Capture Mode Palette in Green Mode. If you try to display the [Rec. Mode] menu or Capture Mode Palette, (key lock icon) and a message appear.

- If you switched to mode from Green Mode, you cannot display the [Setting] menu by pressing the **MENU** button. If you try to display the [Setting] menu, (key lock icon) and a message appear.
- When the camera is turned off in the Green Mode, it turns on in the Green Mode next time the power switch is pressed.

* The Green Mode settings are as shown below.

Flash Mode	(Auto)*1
Drive Mode	(Standard)*2
Focus Mode	**AF** (Standard)*3
Information Display	Standard
Recorded Pixels	7M
Quality Level	★★ (Better)
White Balance	**AWB** (Auto)
Focusing Area	(Multiple)
Sensitivity	Auto
EV Compensation	±0.0
Digital Zoom	(On)
Instant Review	1 sec
Sharpness	(Standard)
Saturation	(Standard)
Contrast	(Standard)

*1 Can be set to (Flash Off)
*2 Can be set to (10 sec. Self-timer) or (2 sec. Self-timer). (The setting in a shooting mode other than Green Mode is available.)
*3 Can be set to (Macro) and (super macro)

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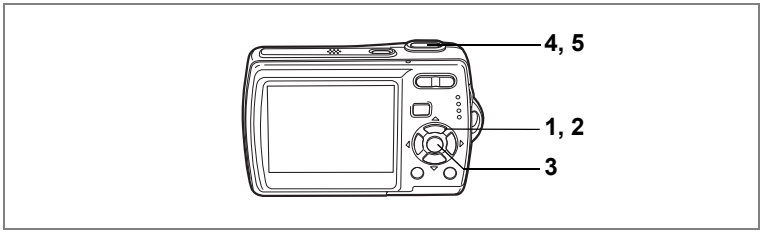

Taking Pictures of Dark Scenes (Night Scene Mode)

In (Night Scene mode), you can choose settings appropriate for taking pictures of dark scenes, such as nightscapes.

1 Press the four-way controller (▼) in mode.

The Capture Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select (Night Scene).

3 Press the OK button.

The shooting mode is selected and the camera returns to capture status.

4 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

5 Press the shutter release button fully.

The picture is taken.

- The shutter speed is slower when taking pictures of dark scenes.
- The continuous shooting function is not available in mode.
- To prevent camera shake, use a tripod and the self-timer function. (p.72)

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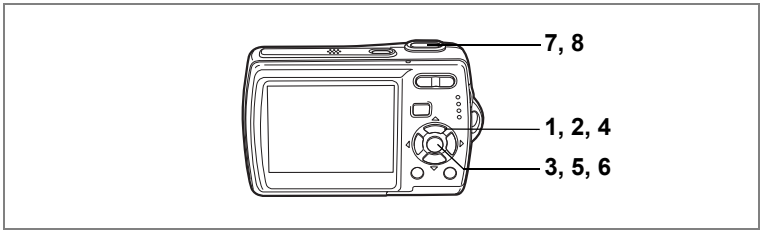


Framing Your Pictures (Frame Composite Mode)

In ❤ (Frame Composite mode), you can take pictures using the frames stored in the camera.

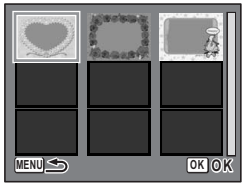
1 **Press the four-way controller (▼) in 📷 mode.**

The Capture Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select ❤ (Frame Composite).**

3 **Press the OK button.**

A 9-frame display of the frame selection screen appears.

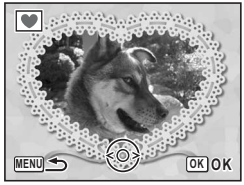


4 **Use the four-way controller (▲▼◀▶) to choose the frame you want to use.**

5 **Press the OK button.**

The selected frame appears in single-image display. You can choose another frame using either of the following operations.

- Use the four-way controller (◀▶) to choose a different frame.
- Press the **MENU** button or ⊠ on the Zoom/⊠/🔍 button to return to the 9-frame display of the frame selection screen, and then perform Step 4 to choose a different frame.



6 **Press the OK button.**

The frame appears on the screen.

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7 **Press the shutter release button halfway.**

The focus frame on the LCD monitor turns green if the subject is in focus.

8 **Press the shutter release button fully.**

The picture is taken.

- The number of recorded pixels is fixed at 3M and the quality level at ★★.
- The continuous shooting function is not available in ♥ mode.

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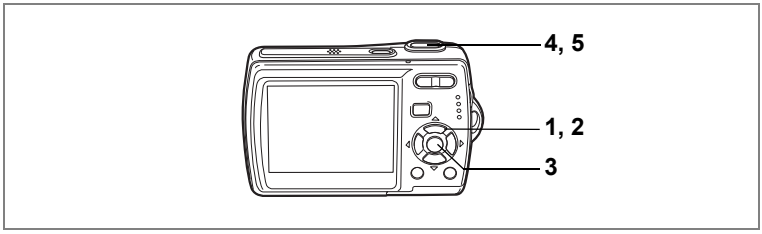


Taking Pictures of People (Portrait Mode)

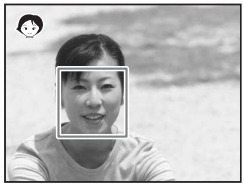
In (Portrait mode), Face Recognition AF and Face Recognition AE are activated. Simply point the camera toward your subject's face and the camera automatically recognizes the location of the subject's face, adjusts the focus (using Face Recognition AF) and the exposure (using Face Recognition AE) and allows you to take a picture.

1 Press the four-way controller (▼) in mode.

The Capture Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select (Portrait).

3 Press the OK button.



The shooting mode is selected and the camera returns to capture status.
When the location of the subject's face is recognized, a yellow focus frame appears on the LCD monitor at the location of the face. As the subject moves, the size and location of the focus frame change to match the location of the subject's face.

4 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

5 Press the shutter release button fully.

The picture is taken.

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- If the camera cannot recognize the location of the subject's face, the camera focuses using the normal Focusing Area (Multiple).
- The digital zoom function cannot be used in mode.
- Continuous Shooting cannot be used in mode.
- In mode, only and the focus frame appear on the LCD monitor. No other shooting information is displayed. In addition, you cannot change the information displayed on the LCD monitor by pressing the **OK**/**DISPLAY** button.
- Face Recognition AF and Face Recognition AE may not work if the subject is wearing sunglasses or has part of the face covered or if the subject is not looking toward the camera.

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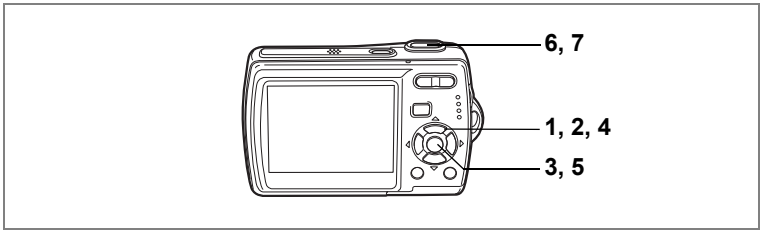

Taking Pictures of Your Pet (Pet Mode)

In (Pet mode), your moving pet is kept in focus while you take the picture, allowing you to capture the color of your pet's coat. Choose the appropriate icon depending on what color your pet is (closer to black or white or in between).

1 **Press the four-way controller (▼) in mode.**
The Capture Mode Palette appears.

2 **Use the four-way controller (▲▼◄►) to select (Pet).**

3 **Press the OK button.**
The Pet mode selection screen appears.

4 **Use the four-way controller (▲▼) to select , , , , or .**
There are two types of icons: a cat and dog icon.
(Choosing either the cat or dog icon does not affect the resulting picture. Choose whichever you prefer.)

5 **Press the OK button.**
The Pet mode is selected and the camera returns to capture status.

6 **Press the shutter release button halfway.**
The focus frame on the LCD monitor turns green if the subject is in focus.
The focus frame follows the pet while the shutter release button is pressed halfway.

7 **Press the shutter release button fully.**
The picture is taken.

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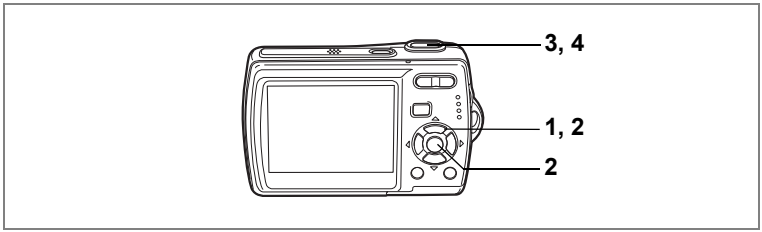

Using the Self-timer

In Self-timer mode, the picture is taken ten seconds or two seconds after the shutter release button is pressed.
Stabilize the camera with a tripod when taking a picture with the self-timer.

⏲	Use this mode when you want to be included in a group picture. The picture is taken approximately ten seconds after the shutter release button is pressed.
⏲2s	Use this mode to avoid camera shake. The picture is taken approximately two seconds after the shutter release button is pressed.

1 Press the four-way controller (▲) in 📷 mode.

2 Use the four-way controller (◄►▼) to select ⏲ or ⏲2s and press the OK button.

The camera is ready to take the picture using the self-timer.

3 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

4 Press the shutter release button fully.

The picture is taken ten seconds or two seconds later.

Caution Focusing may be compromised if you move the camera while the self-timer lamp is blinking when taking still pictures.

memo
- In 🎥 mode, recording will start after ten seconds (or two seconds).
- Press the shutter release button halfway while the self-timer is engaged to stop the countdown and press fully to restart the countdown.
- ⏲2s cannot be selected while ▦ mode is in default setting. Select ⏲2s in another shooting mode and then switch the shooting mode to ▦ mode.

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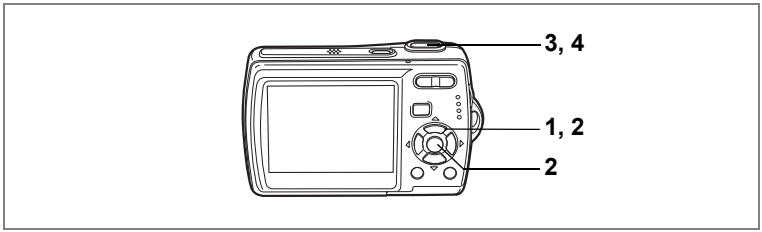

P

Taking a Series of Pictures

In this mode, pictures are taken continuously for as long as the shutter release button is pressed.

	Continuous Shooting	Each time a picture is taken, the image is saved in the memory before the next image is taken. The higher the image quality, the longer the interval between shots.

1 Press the four-way controller (▲) in mode.

2 Use the four-way controller (◀▶) to select (Continuous Shooting) and press the OK button.

The camera is ready to take a series of pictures.

3 Press the shutter release button halfway.

The focus frame on the LCD monitor turns green if the subject is in focus.

4 Press the shutter release button fully.

Pictures are taken continuously for as long as you keep the shutter release button pressed.

Caution

- The flash will not discharge in Continuous Shooting mode.
- The continuous shooting function is not available in , , , , , or mode.

memo

- You can continue shooting until the memory capacity of the SD Memory Card or built-in memory is full.
- The interval of continuous shooting will vary according to the Recorded Pixels and Quality Level settings.
- The focus, exposure and white balance are locked with the first image.

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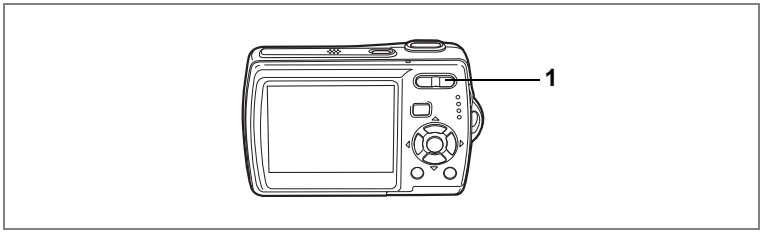


Using the Zoom

You can use the zoom to change the captured area.

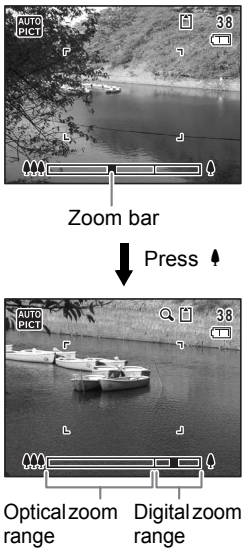
1 Press the Zoom/ / button in mode.

Tele : enlarges the subject

Wide : widens the area that is captured by the camera

The zoom bar indicates the current level of magnification.

When the digital zoom function is set to □ (Off), you can take pictures at up to three times magnification using the optical zoom. When the digital zoom function is set to ☑ (On), you can combine it with the optical zoom to enlarge the subject to a maximum magnification equivalent to 12 times.



memo

- You are recommended to use a tripod to prevent camera shake when taking pictures at a high magnification rate.
- Pictures taken in the digital zoom range appear grainier than pictures taken in the optical zoom range.
- The digital zoom function cannot be used in mode.

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Setting the Digital Zoom

The digital zoom is set to ☑ (On) in the default settings. To take pictures using only the optical zoom, set the digital zoom to □ (Off).

1 **Press the MENU button in 📷 mode.**

The [📷 Rec. Mode] menu appears.

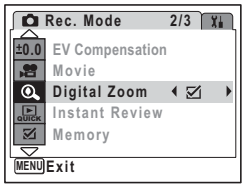
2 **Use the four-way controller (▲▼) to select [Digital Zoom].**

3 **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

The selected setting is saved.

4 **Press the MENU button.**

The setting is complete and the camera returns to capture status.



Saving the Digital Zoom Function Setting ☞p.96

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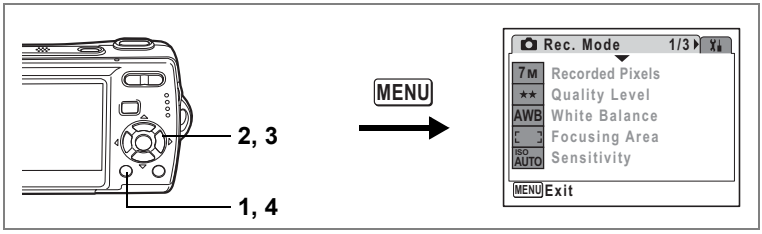
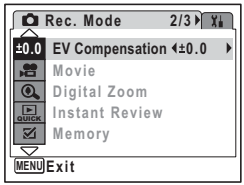


P

Setting the Exposure (EV Compensation)

You can adjust the overall brightness of the picture.
Use this function to take pictures that are intentionally overexposed or underexposed.



1 Press the MENU button in mode.

The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [EV Compensation].

3 Use the four-way controller (◀▶) to select the EV value.

The selected EV value is saved.
To brighten, select a positive (+) value. To darken, select a negative (–) value.
You can choose the EV setting in the range of –2.0 EV to +2.0 EV in 1/3 EV steps.

4 Press the MENU button.

The setting is complete and the camera returns to capture status.

memo

- If you use the EV compensation function frequently, you can save time by assigning it to the Green button. (p.56)
- When the histogram is displayed, bright portions and dark portions are indicated on the LCD monitor, enabling you to check the exposure. (p.78)
- In and mode, the EV compensation is fixed to ±0.0.

Saving the EV Compensation Value ☞p.96

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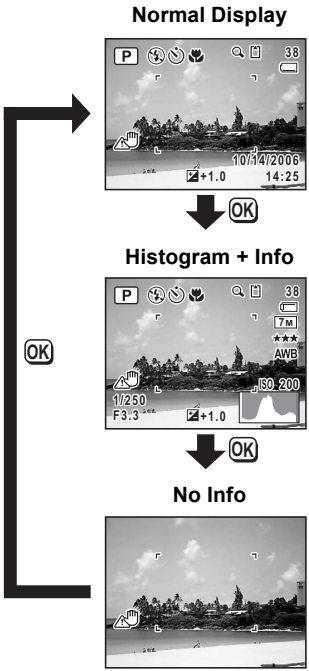
Displaying Shooting Information

The LCD monitor display changes in the following sequence each time you press the **OK**/**DISPLAY** button: Normal Display, Histogram + Info, No Info.
For details of each display mode, refer to “Monitor Indications” (p.16).

- appears when camera shake is likely to occur. To prevent camera shake, use a tripod and the self-timer function. (p.72)
- Only and the focus frame are displayed on the LCD monitor in mode. Other shooting information is not displayed. You cannot change the information displayed on the LCD monitor by pressing the **OK**/**DISPLAY** button.



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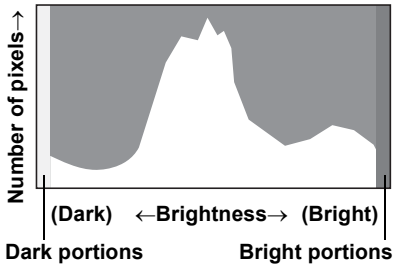
Using the Histogram

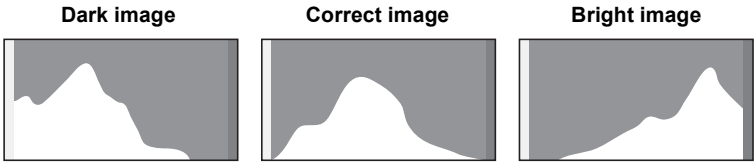
A histogram shows the brightness distribution of an image. The horizontal axis represents brightness (dark at the left and bright at the right) and the vertical axis represents the number of pixels.
The shape of the histogram before and after shooting tells you whether the brightness and contrast are correct or not, and lets you decide if you need to use EV compensation and take the picture again.



Setting the Exposure (EV Compensation) ☞p.76

Understanding Brightness

If the brightness is correct, the graph peaks in the middle. If the image is too dark, the peak is on the left side, and if it is too bright, the peak is on the right side.



When the image is too dark, the part to the left is cut off (dark portions) and when the image is too bright, the part to the right is cut off (bright portions).
Bright portions blink red on the LCD monitor and dark portions blink yellow.

Displaying Shooting Information ☞p.77
Displaying Shooting Information in Playback Mode ☞p.112

Understanding Contrast

The graph peaks gradually for images in which contrast is balanced. The graph peaks on both sides but sinks in the middle for images with a large difference in contrast and low amounts of mid-level brightness.

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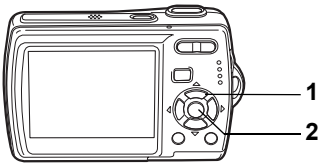


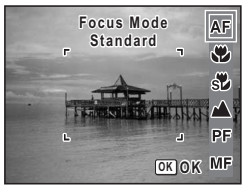
Selecting the Focus Mode

Focus Mode

AF	Standard	This mode is used when the distance to the subject is 40 cm (15.7 in.) or more (60 cm or 23.6 in. for Tele). The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway.
	Macro	This mode is used when the distance to the subject is approx. 10 cm to 1m (3.9 in. to 39.4 in.). The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway.
	Super Macro	This mode is used when the distance to the subject is approx. 5 cm to 40 cm (1.9 in. to 15.7 in.). The camera is focused on the subject in the autofocus area when the shutter release button is pressed halfway. Only digital zoom is available for zoom.
	Infinity	This mode is used for taking distant objects. The flash is set to (Flash Off).
PF	Pan Focus	This mode is used when you ask someone to take pictures for you, or when taking pictures of the scenery through the window of a car or train. The entire picture, from the front to the back, is focused sharply.
MF	Manual Focus	This mode lets you adjust the focus manually.

1 Press the four-way controller (▶) in mode.

The focus mode changes each time the button is pressed. You can also change the setting using the four-way controller (▲▼).



2 Press the OK button.

The Focus Mode setting is saved and the camera returns to capture status.

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In mode, you can only select **AF**, and .

Manual Focus ☞p.80
Saving the Focus Mode ☞p.96

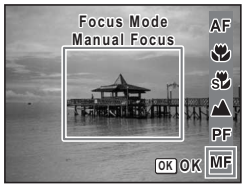
Manual Focus

The procedure for setting the focus manually (**MF**) is described below.

1 Press the four-way controller (▶) in mode.

2 Use the four-way controller (▶) to select MF and press the OK button.

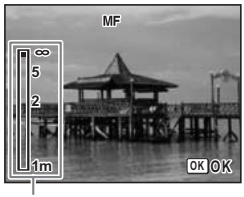
The central portion of the image is magnified to fill the screen of the LCD monitor when focusing.



3 Press the four-way controller (▲▼).

The **MF** indicator appears on the LCD monitor to indicate the approximate distance to the subject. Use the four-way controller (▲▼) to adjust the focus using the indicator as a guide.

▲ : for distant focus
▼ : for closer focus



MF indicator

4 Press the OK button.

The focus is fixed and the camera returns to capture status.
The focus position is fixed five seconds after you remove your finger from the four-way controller.
After the focus is fixed, you can press the four-way controller (▶) again to display the **MF** indicator and readjust the focus using the four-way controller (▲▼).

Caution Shooting mode and drive mode cannot be changed while adjusting **MF**.

To switch from **MF** to another focus mode, press the four-way controller (▶) while the **MF** indicator is displayed.

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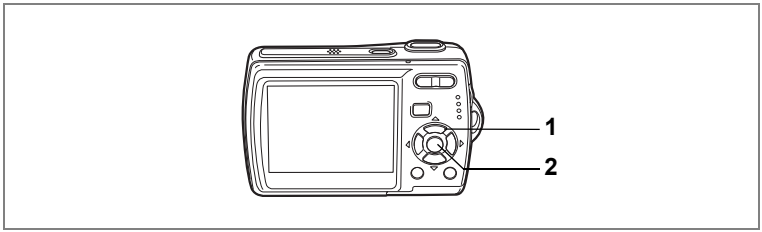

Selecting the Flash Mode

Flash Modes

ϟ_A	Auto	The flash discharges automatically depending on the light conditions.
⊘	Flash Off	The flash will not discharge, regardless of the brightness. Use this mode to take pictures where flash photography is prohibited.
ϟ	Flash On	The flash discharges regardless of the brightness.
👁_A	Auto + Red-eye	This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash discharges automatically.
👁ϟ	Flash On + Red-eye	This mode reduces the phenomenon of red eyes caused by the light from the flash being reflected in the subject's eyes. The flash will discharge regardless of the light conditions.
SOFTϟ	Soft Flash	This mode reduces the intensity of the flash so that the flash is not too bright even when fired at close range. The flash will discharge regardless of the light conditions.

memo

- The flash will not discharge ⊘ (Flash Off) in 🎥 mode or when the drive mode is set to ▣, or the focus mode is set to ▲.
- A pre-flash discharges when using the red-eye reduction function.
- In ▦ mode, you can only select ϟ_A or ⊘.

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1 Press the four-way controller (◄) in 📷 mode.

The flash mode changes each time the button is pressed. You can also change the setting using the four-way controller (▲▼).

2 Press the OK button.

The camera returns to capture status with the selected flash mode.

[About the red-eye phenomenon]

Taking pictures using the flash may cause the subject's eyes to appear red in the resulting picture. This phenomenon occurs when the light from the flash is reflected in the subject's eyes. It can be reduced by illuminating the area around the subject or moving closer to the subject and zooming out to a wider angle. Setting the flash mode to (Auto + Red-eye) or (Flash On + Red-eye) is also an effective way of reducing red eyes.

Saving the Flash Mode ☞p.96

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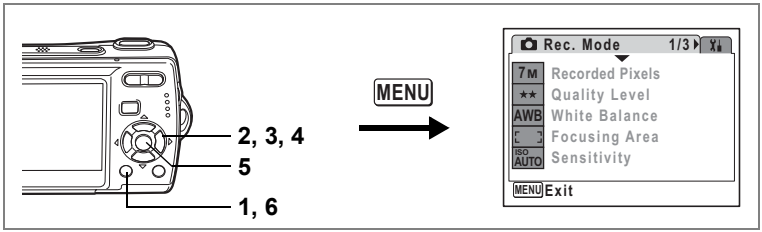

Selecting the Recorded Pixels

You can choose from seven recorded pixels settings for still pictures. The larger your recorded pixels, the clearer the details will appear when you print your picture. As the quality of the printed picture also depends on the image quality, exposure control, resolution of the printer and other factors, you do not need to select more than the required number of recorded pixels. 2M (1600×1200) is adequate for making postcard-size prints. The more pixels there are, the larger the picture and the bigger the file size. The data volume also varies depending on the quality level setting (p.85).

Recorded Pixels

Recorded Pixels		Use
7M 3072×2304	Clearer ↑	For printing high quality photos or A4-size pictures, or editing images on a PC.
5M 2560×1920		
4M 2304×1728		
3M 2048×1536		
2M 1600×1200		For making postcard-size prints.
1024 1024× 768		
640 640× 480		For posting on a website or attaching to e-mail.

1 Press the MENU button in 📷 mode.

The [📷 Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Recorded Pixels].

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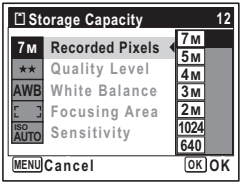
3 **Press the four-way controller (▶).**

A pull-down menu appears.



4 **Use the four-way controller (▲▼) to change the number of recorded pixels.**

Storage capacity for the selected recorded pixels is displayed when the Recorded Pixels setting is changed.

5 **Press the OK button.**

The Recorded Pixels setting is saved.

6 **Press the MENU button.**

The camera returns to capture status with the current setting.

memo

- When shooting mode is set to 💟, the number of recorded pixels is set to 3M and quality level is set to ★★.
- When shooting mode is set to 🎥, the number of recorded pixels set in [Movie] on the recording mode menu is set. (p.100)
- If you use the [Recorded Pixels] function frequently, you can save time by assigning it to the Green button. (p.56)

Recorded Pixels and Quality Level of Still Pictures ☞p.29

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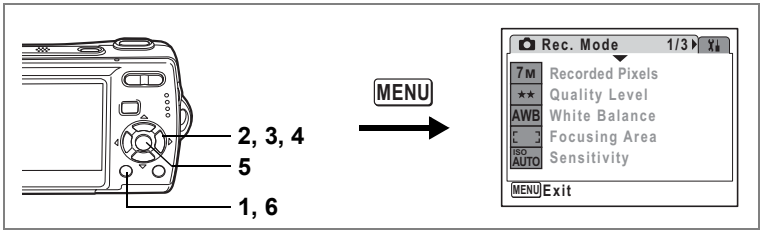


Selecting the Quality Level

You can select the quality (compression rate) of still pictures.
The more stars, the lower the compression rate and the clearer the picture, but the file size becomes larger. The recorded pixels setting also affects the file size (p.83).

Quality Level

★★★	Best	Lowest compression rate. Suitable for photo prints.
★★	Better	Standard compression rate. Suitable for viewing the image on a computer screen.
★	Good	Highest compression rate. Suitable for posting on a website or attaching to e-mail.

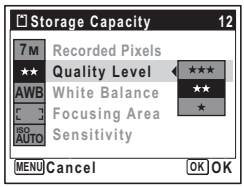
1 Press the MENU button in mode.

The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Quality Level].

3 Press the four-way controller (▶).

A pull-down menu appears.



4 Use the four-way controller (▲▼) to change the quality level.

Storage capacity for the selected quality level is displayed when the Quality Level setting is changed.

5 Press the OK button.

The Quality Level setting is saved.

6 Press the MENU button.

The camera returns to capture status with the current setting.

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- Quality level is set at ★★ when shooting mode is set to [♥].
- When shooting mode is set to [🎥], the number of recorded pixels set in [Movie] on the recording mode menu is set. (p.102)
- If you use the [Quality Level] function frequently, you can save time by assigning it to the Green button. (p.56)

Recorded Pixels and Quality Level of Still Pictures ☞p.29

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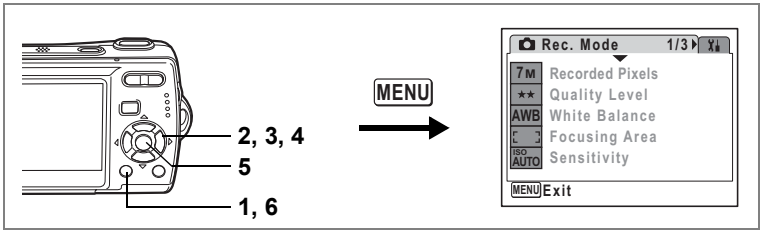


P

Adjusting the White Balance

You can take pictures in natural colors by adjusting the white balance according to the light conditions at the time of shooting.

White Balance

AWB	Auto	The camera adjusts the white balance automatically.
☼	Daylight	Use this mode when taking pictures outside in sunlight.
⛅	Shade	Use this mode when taking pictures outside in the shade.
☼	Tungsten Light	Use this mode when taking pictures under electric or other tungsten light.
☼	Fluores. Light	Use this mode when taking pictures under fluorescent light.
☼	Manual	Use this mode when adjusting the white balance manually.

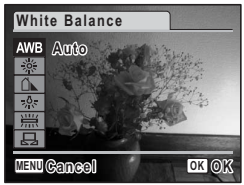
1 Press the MENU button in 📷 mode.

The [📷 Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [White Balance].

3 Press the four-way controller (▶).

The White Balance screen appears.



4 Use the four-way controller (▲▼) to change the setting.

5 Press the OK button.

The White Balance setting is saved.

6 Press the MENU button.

The camera returns to capture status with the current setting.

Refer to “Manual Setting” (p.88) for instructions on adjusting the white balance manually.

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If you use the [White Balance] function frequently, you can save time by assigning it to the Green button. (p.56)

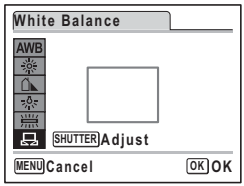
Saving the White Balance ☞p.96

Manual Setting

Have a blank sheet of white paper or similar material for White balance adjustment ready beforehand.

1 **In the White balance screen, use the four-way controller (▲▼) to select (Manual).**

2 **Point the camera at the blank sheet of white paper or similar material for White balance adjustment so that it fits the frame at the center of the LCD monitor.**



3 **Press the shutter release button fully.**

The white balance is automatically adjusted.

4 **Press the OK button.**

The setting is saved and the screen returns to the [Rec. Mode] menu.

5 **Press the MENU button.**

The camera returns to capture status.

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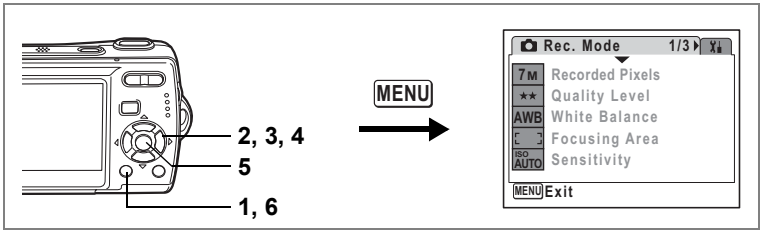


P

Changing the Focusing Area

You can change the autofocus area (Focusing Area).

Focusing Area

[ ]	Multiple	Normal range
[ ]	Spot	The autofocus range becomes smaller.
	Automatic Tracking AF	Keeps moving subjects in focus.

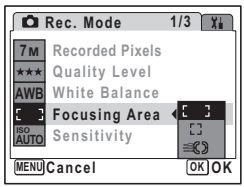
1 Press the MENU button in mode.

The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Focusing Area].

3 Press the four-way controller (►).

A pull-down menu appears.



4 Use the four-way controller (▲▼) to change the setting.

5 Press the OK button.

The Focusing Area setting is saved.

6 Press the MENU button.

The camera returns to capture status with the current setting.

memo

- In mode, [Focusing Area] can only be set to [ ] (Multiple) or [ ] (Spot).
- In AUTO PICT and mode, [Focusing Area] is set to [ ] (Multiple).
- In mode, you can set the focusing area in the recording mode menu but the focus mode during shooting is fixed to **PF**. (p.79)
- If you use the [Focusing Area] function frequently, you can save time by assigning it to the Green button. (p.56)

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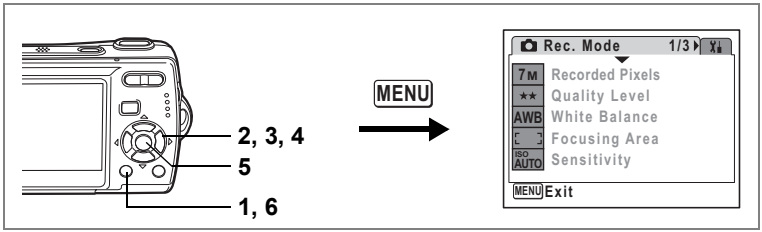


Setting the Sensitivity

You can select the sensitivity to suit the brightness of the surroundings.

Sensitivity

Auto	Sensitivity is automatically adjusted to between 64 and 400.
64 100 200 400 800 1600	• The lower the sensitivity, the less noise that affects the image. The shutter speed will be slower in low light conditions. • Higher sensitivity settings use faster shutter speeds in low light conditions to reduce camera shake, but the image may be affected by noise.

1 **Press the MENU button in mode.**

The [Rec. Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Sensitivity].**

3 **Press the four-way controller (▶).**

A pull-down menu appears.

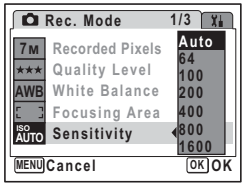
4 **Use the four-way controller (▲▼) to change the sensitivity.**

5 **Press the OK button.**

The Sensitivity setting is saved.

6 **Press the MENU button.**

The camera returns to capture status with the current setting.



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- When shooting mode is set to (), the sensitivity is automatically adjusted to between 64 and 1600.
- If you use the [Sensitivity] function frequently, you can save time by assigning it to the Green button. (p.56)

Saving the Sensitivity ☞p.96

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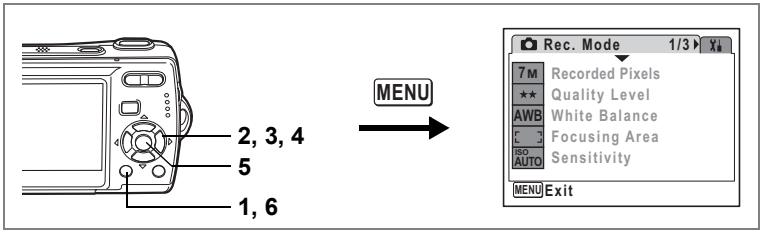


Setting the Instant Review Time (Instant Review)

You can choose the Instant Review time (the length of time the image is displayed immediately after capture) from 0.5sec, 1sec, 2sec, 3sec, 5sec and Off (no display).

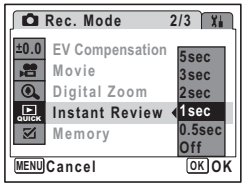
1 Press the MENU button in mode.

The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Instant Review].

3 Press the four-way controller (▶).

A pull-down menu appears.



4 Use the four-way controller (▲▼) to change the display time.

5 Press the OK button.

The Instant Review setting is saved.

6 Press the MENU button.

The camera returns to capture status with the current setting.

Instant Review ☞p.40

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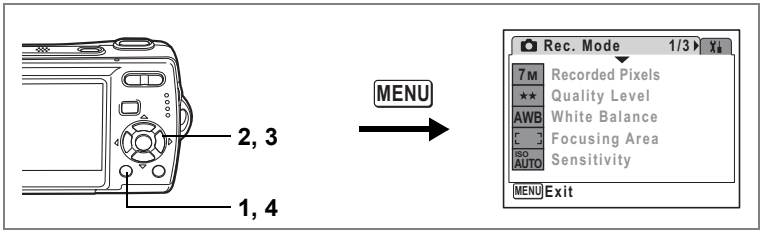


P

Setting the Image Sharpness (Sharpness)

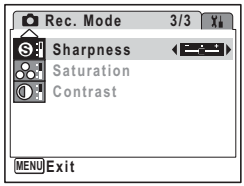
You can give the image sharp or soft outlines.

1 Press the MENU button in mode.

The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Sharpness].

3 Use the four-way controller (◀▶) to change the sharpness level.



The following setting is saved.

(Soft)
(Normal)
(Hard)

4 Press the MENU button.

The Sharpness setting is saved and the camera returns to capture status.

memo If you use the [Sharpness] function frequently, you can save time by assigning it to the Green button. (p.56)

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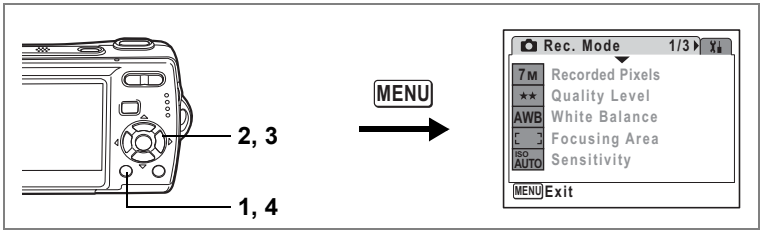


P

Setting the Color Saturation (Saturation)

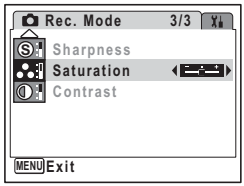
You can set the color saturation.

1 Press the MENU button in mode.

The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Saturation].

3 Use the four-way controller (◀▶) to change the saturation level.



The following setting is saved.

(Low)
(Normal)
(High)

4 Press the MENU button.

The Saturation setting is saved and the camera returns to capture status.

memo If you use the [Saturation] function frequently, you can save time by assigning it to the Green button. (p.56)

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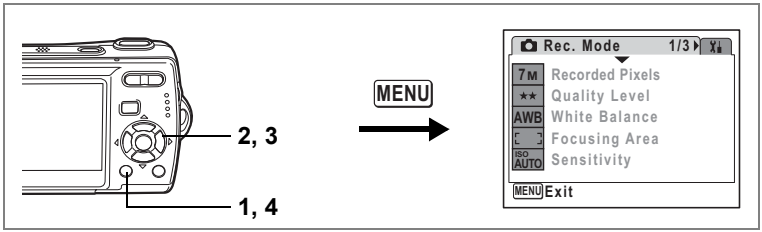


P

Setting the Image Contrast (Contrast)

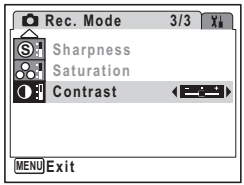
You can set the image contrast level.

1 **Press the MENU button in mode.**

The [Rec. Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Contrast].**

3 **Use the four-way controller (◀▶) to change the contrast level.**



The following setting is saved.

- (Low)
- (Normal)
- (High)

4 **Press the MENU button.**

The Contrast setting is saved and the camera returns to capture status.

memo If you use the [Contrast] function frequently, you can save time by assigning it to the Green button. (p.56)

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Saving the Settings (Memory)

The Memory function is for saving the current camera settings even when the camera is turned off.
For some camera settings, the Memory function is always set to ☑ (On) (the settings are saved when the camera is turned off), while for others you can choose on or off (to choose whether the settings are saved or not when the camera is turned off). The items which can be set to ☑ (On) or □ (Off) in the Memory function are shown in the table below. (Items not listed here will be saved in the selected settings when the camera is turned off.) If you select ☑ (On), the settings will be saved in the status they were in immediately before the camera was turned off. If you select □ (Off), the settings will be reset to the defaults when the camera is turned off. The table below also shows whether the Memory default setting for each item is on or off.

Item	Description	Default Setting
Flash Mode	The flash mode set with the four-way controller (◀) (p.81)	☑
Drive Mode	The drive mode set with the four-way controller (▲) (p.72, p.73)	□
Focus Mode	The focus mode set with the four-way controller (▶) (p.79)	□
Zoom Position	The zoom position set with the Zoom/ / button (p.74)	□
MF Position	The manual focus position set with the four-way controller (▲▼) (p.80)	□
White Balance	The [White Balance] setting on the [Rec. Mode] menu (p.87)	□
Sensitivity	The [Sensitivity] setting on the [Rec. Mode] menu (p.90)	□
EV Compensation	The [EV Compensation] setting on the [Rec. Mode] menu (p.76)	□
Digital Zoom	The [Digital Zoom] setting on the [Rec. Mode] menu (p.75)	☑
DISPLAY	The LCD monitor information display mode set with the **OK**/**DISPLAY** button (p.77, p.112)	□
File #	If a new SD Memory Card is inserted when On has been selected, file numbers are assigned sequentially.	☑

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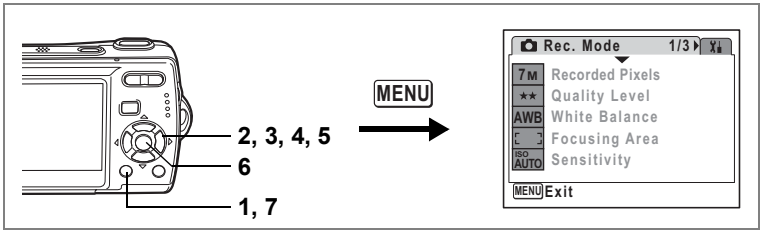


1 **Press the MENU button in mode.**

The [Rec. Mode] menu appears.

2 **Press the four-way controller (▲▼) to select [Memory].**

3 **Press the four-way controller (▶).**

The Memory screen appears.

4 **Use the four-way controller (▲▼) to choose an item.**

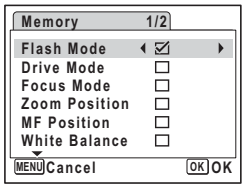
5 **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

6 **Press the OK button.**

The Memory setting is saved.

7 **Press the MENU button.**

The camera returns to capture status with the current setting.



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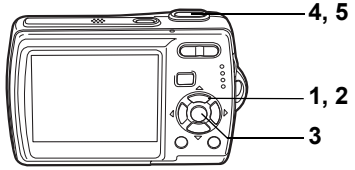


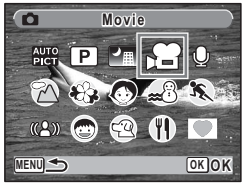
Recording a Movie

This mode enables you to record movies. Sound is recorded at the same time.

1 **Press the four-way controller (▼) in 📷 mode.**

The Capture Mode Palette appears.

2 **Use the four-way controller (▲▼◄►) to select 🎥 (Movie).**



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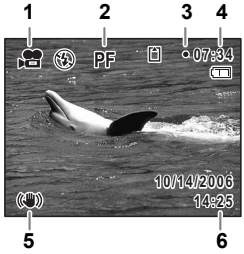
3 Press the OK button.

mode is selected and the camera returns to capture status.
The following information appears on the LCD monitor.



1 **Movie mode icon**
2 **Focus mode icon (fixed to PF)**
3 **Recording indicator (appears when recording begins in step 4 and blinks during recording)**
4 **Recording time**
5 **Movie anti-shake icon (appears when Movie anti-shake is set to On. p.105)**
6 **Date and time display (does not appear during recording)**

You can change the captured area by pressing the Zoom/ / button to the left or right.

: enlarges the subject
: widens the area that is captured by the camera

4 Press the shutter release button fully.

Recording starts.

memo

- The flash will not discharge in mode.
- Focus Mode is fixed to **PF** when in mode. (p.79)
- You can use the optical zoom and digital zoom before starting to record, and the digital zoom while recording.
- Changing the LCD monitor display mode by pressing the **OK**/**DISPLAY** button while recording a movie will not display the histogram.

5 Press the shutter release button fully.

Recording stops.

Playing Back Movies ☞p.115

Keeping the Shutter Release Button Pressed

If you keep the shutter release button pressed for more than one second, recording will continue for as long as you keep the button pressed. Shooting stops when you take your finger off the shutter release button.

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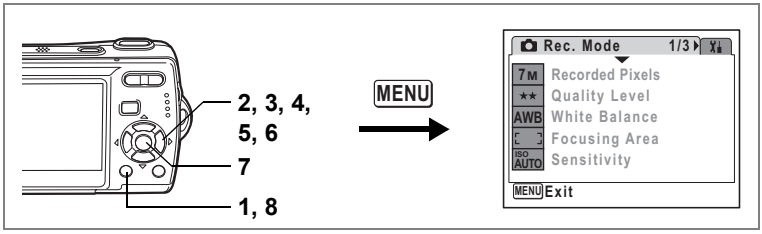


Selecting the Recorded Pixels for Movies

You can choose from two recorded pixels settings for movies: [640 640×480] and [320 320×240].
The more pixels there are, the bigger the file size. The data volume also varies depending on the frame rate setting. (p.30)

Recorded Pixels for Movies

640 (640×480)	Suitable for viewing on a TV or computer screen.
320 (320×240)	Suitable for posting on a website or attaching to e-mail.

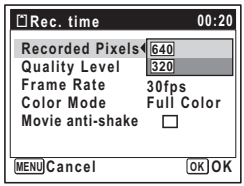
1 Press the MENU button in mode.
The [Rec. Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Movie].

3 Press the four-way controller (▶).
The Movie screen appears.

4 Use the four-way controller (▲▼) to select [Recorded Pixels].

5 Press the four-way controller (▶).
A pull-down menu appears.



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6 **Use the four-way controller (▲▼) to change the number of recorded pixels.**

Recording time for the selected recorded pixels is displayed when the Recorded Pixels setting is changed.

7 **Press the OK button.**

The Recorded Pixels setting is saved.

8 **Press the MENU button twice.**

The camera returns to capture status with the current setting.

Recorded Pixels, Quality Level and Frame Rate of Movies ☞p.30

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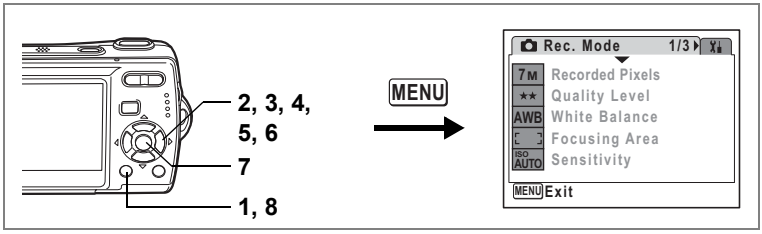


Selecting the Quality Level of Movies

You can set the quality level of movies. The higher the quality level, the clearer the details and the bigger the file size.

Quality level of movies

★★★	Best	Images will be clearer but file size will be larger.
★★	Better	
★	Good	Images will be grainier but file size will be smaller.

1 Press the MENU button in mode.

The [Rec.Mode] menu appears.

2 Use the four-way controller (▲▼) to select [Movie].

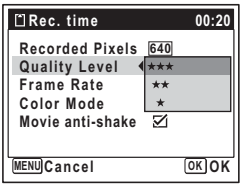
3 Press the four-way controller (▶).

The Movie screen appears.

4 Use the four-way controller (▲▼) to select [Quality Level].

5 Press the four-way controller (▶).

A pull-down menu appears.



6 Use the four-way controller (▲▼) to change the quality level.

Recording time for the selected quality level is displayed when the Quality Level setting is changed.

7 Press the OK button.

The Quality Level setting is saved.

8 Press the MENU button twice.

The camera returns to capture status with the current setting.

Recorded Pixels, Quality Level and Frame Rate of Movies ☞p.30

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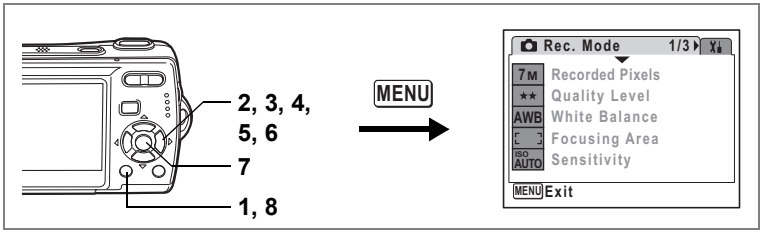


Selecting the Frame Rate

You can choose from two frame rates (number of frames per second) for movies: [30fps] and [15fps]. The more frames per second, the better the quality of the movie, but the file size becomes larger.

1 **Press the MENU button in mode.**

The [Rec. Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Movie].**

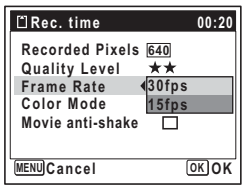
3 **Press the four-way controller (▶).**

The Movie screen appears.

4 **Use the four-way controller (▲▼) to select [Frame Rate].**

5 **Press the four-way controller (▶).**

A pull-down menu appears.



6 **Use the four-way controller (▲▼) to select [30fps] or [15fps].**

Recording time for the selected frame rate is displayed when the Frame Rate setting is changed.

7 **Press the OK button.**

The Frame Rate setting is saved.

8 **Press the MENU button twice.**

The camera returns to capture status with the current setting.

Recorded Pixels, Quality Level and Frame Rate of Movies ☞p.30

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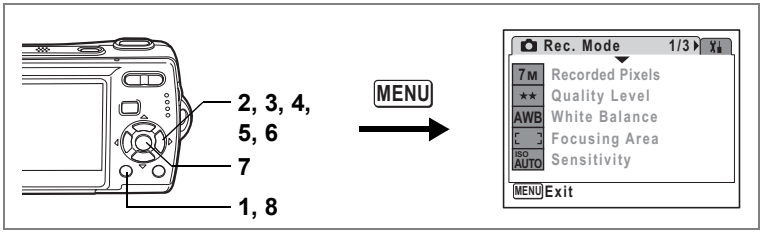


Recording Movies in Black and White or Sepia Tones (Color Mode)

In (Movie mode), you can set the color mode to Black and White or Sepia, as well as Full Color, when recording a movie.

1 **Press the MENU button in mode.**

The [Rec. Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Movie].**

3 **Press the four-way controller (▶).**

The Movie screen appears.

4 **Use the four-way controller (▲▼) to select [Color Mode].**

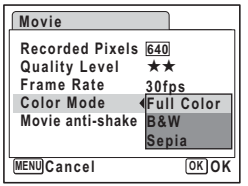
5 **Press the four-way controller (▶).**

A pull-down menu appears.

6 **Use the four-way controller (▲▼) to choose a color.**

7 **Press the OK button.**

The Color Mode setting is saved.



8 **Press the MENU button twice.**

The camera returns to capture status with the current setting.

Caution The color mode setting cannot be changed after a movie is recorded.

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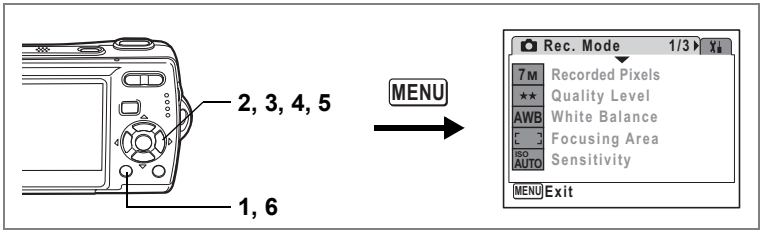


Setting the Movie Anti-Shake Function

In (Movie mode), you can use the Movie anti-shake function to correct camera shake.

1 **Press the MENU button in mode.**

The [Rec.Mode] menu appears.

2 **Use the four-way controller (▲▼) to select [Movie].**

3 **Press the four-way controller (▶).**

The Movie screen appears.

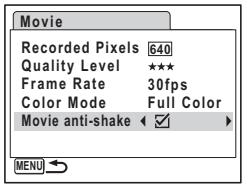
4 **Use the four-way controller (▲▼) to select [Movie anti-shake].**

5 **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

The Movie anti-shake setting is saved.

6 **Press the MENU button twice.**

The camera returns to capture status with the current setting.



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Switching Between 📷 Mode and ▶ Mode

In this manual, the capture mode, such as for taking still pictures, is referred to as "📷 mode". The playback mode, such as for displaying captured images on the LCD monitor, is referred to as "▶ mode". In ▶ mode, you can perform simple editing operations on the images that are played back.
Follow the procedure below to switch between 📷 mode and ▶ mode.

Switching from 📷 Mode to ▶ Mode

1 Press the ▶ button.

The camera switches to ▶ mode.

Switching from ▶ Mode to 📷 Mode

1 Press the ▶ button or shutter release button halfway.

The camera switches to 📷 mode.

memo When an SD Memory Card is inserted, images, movies and sound files saved in the SD Memory Card are displayed. Remove the SD Memory Card to display images, movies and sound files saved in the built-in memory.

Displaying Data in the Built-in Memory with the SD Memory Card Inserted (Browse Built-in Memory)

- Press the ▶ button for more than one second when an SD Memory Card is inserted while switching from 📷 mode to ▶ mode to display images, movies and sound files saved in the built-in memory.
- You can play back still pictures (including magnify) (p.41, 110), movies (p.115), and sound (p.145), or display images in divided nine-image display, Folder display or Calendar display (p.108).
- You cannot delete data, Select & Delete, or display the Playback Mode Palette or menu. Remove the SD Memory Card to perform these operations on images, movies and sound files saved in the built-in memory.

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Playing Back Still Pictures

Refer to “Playing Back Images” (p.41) for instructions.

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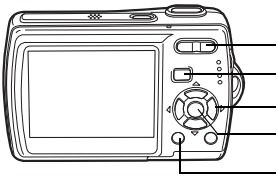
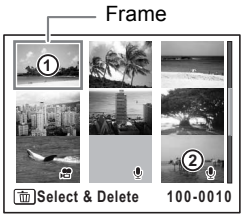


Nine-Image Display, Folder Display and Calendar Display

Nine-Image Display

You can display nine captured images on the LCD monitor at a time.

1 In ▶ mode, press ▦ on the Zoom/▦/🔍 button.



A page consisting of nine thumbnail images appears. The displayed images change nine at a time page by page.
Use the four-way controller (▲▼◀▶) to move the frame. When 10 or more images have been saved, if you choose image ① and press the four-way controller (▲◀), the previous page appears. Similarly, if you choose image ② and press the four-way controller (▼▶), the next page appears.

The icons that appear on the images indicate the following:

No icon	: Still picture without sound
🎙 (with image)	: Still picture with sound
🎥	: Movie (first frame appears)
🎙 (without image)	: Sound file only

Press the **OK** button, **MENU** button or 🔍 on the Zoom/▦/🔍 button to switch to single-image display of the selected image.
Press the ▶ button to switch to 📷 mode.

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Switching to Folder Display or Calendar Display

In nine-image display, press ⊠ on the Zoom/⊠/🔍 button to switch to folder display or calendar display. Press the Green button to switch between folder display and calendar display.

1 **In ▶ mode, press ⊠ on the Zoom/⊠/🔍 button.**

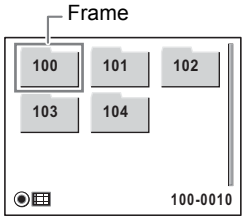
The screen changes to nine-image display.

2 **Press ⊠ on the Zoom/⊠/🔍 button.**

The screen changes to folder display or calendar display.

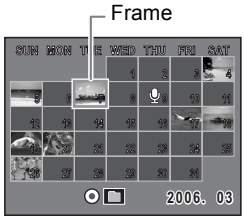
Folder display

The list of folders with recorded images and sound files appears.
Use the four-way controller (▲▼◀▶) to move the selection frame.
Press the **OK** button or 🔍 on the Zoom/⊠/🔍 button to switch to nine-image display.



Calendar display

Recorded images and sound files are displayed by date in calendar format.
The first image recorded on a date is displayed for that date on the calendar.
🎤 appears for dates on which a sound file was first recorded.
Use the four-way controller (▲▼◀▶) to move the selection frame.
Press 🔍 on the Zoom/⊠/🔍 button to display the images for a date in nine-image display.
Select a date and press the **OK** button to switch to single-image display of the first image recorded on that date.



memo

- Press the **MENU** button in folder display or calendar display to switch to normal nine-image display.
- Press the ▶ button or half-press the shutter release button in folder display or calendar display to switch to 📷 mode.

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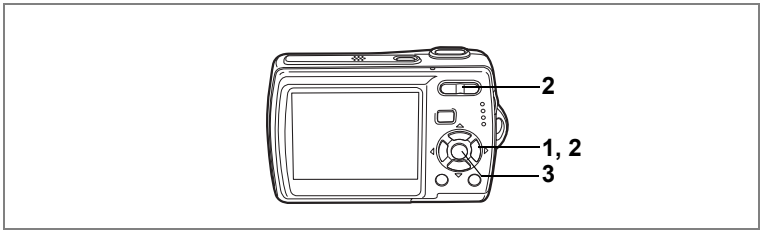

Zoom Playback

You can magnify an image up to eight times. A guide showing the center of the magnified portion of the image appears on the LCD monitor during zoom playback.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the image you want to magnify.**

2 **Press 🔍 on the Zoom/⊠/🔍 button.**

The image is magnified (×1.1 to ×8). Holding down 🔍 on the Zoom/⊠/🔍 button changes the magnification continuously. You can use the guide at the bottom left of the screen to check which portion of the image is magnified.

Guide

The following operations can be performed while the magnified image is displayed.

Four-way controller (▲▼◀▶)	Moves the position to be magnified
Zoom/⊠/🔍 button (🔍)	Makes the image bigger (max. ×8)
Zoom/⊠/🔍 button (⊠)	Makes the image smaller (min. ×1.1)

3 **Press the OK button.**

The image returns to single-image display.

Caution

- Movies cannot be magnified.
- The guide does not appear if the LCD monitor display mode is set to “No Info”.

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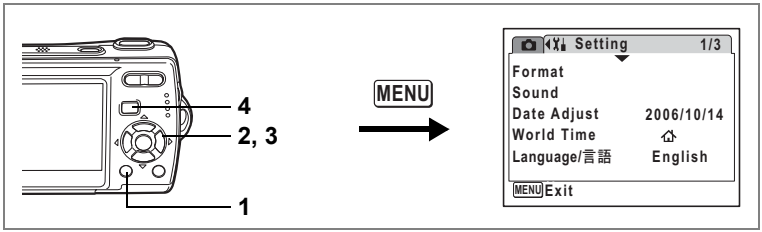


Setting the Quick Zoom Function

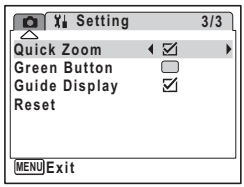
When the Quick Zoom function is enabled, you can display an image at maximum magnification (×8) simply by pressing 🔍 on the Zoom/▪/🔍 button once.

1 Press the MENU button in ▶ mode.

The [🔧 Setting] menu appears.

2 Use the four-way controller (▲▼) to select [Quick Zoom].

3 Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).



- ☑ : Jumps to ×8 magnification
- □ : Pressing 🔍 on the Zoom/▪/🔍 button once magnifies the image in stages from ×1.1 to ×8.0

4 Press the MENU button.

The camera returns to ▶ mode.

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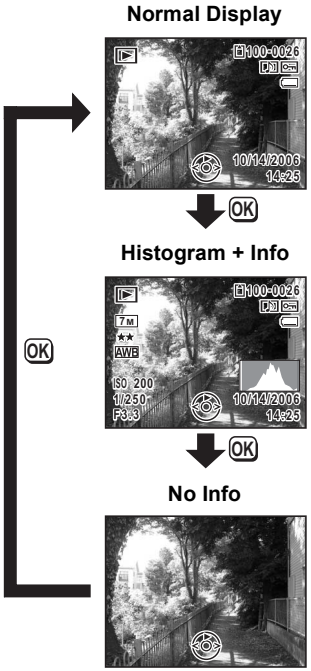
Displaying Shooting Information in Playback Mode

Shooting information can be displayed on the LCD monitor in ▶ mode. Pressing the **OK**/**DISPLAY** button changes the display mode. Refer to p.18 for details of each display mode.



Displaying Shooting Information ☞p.77

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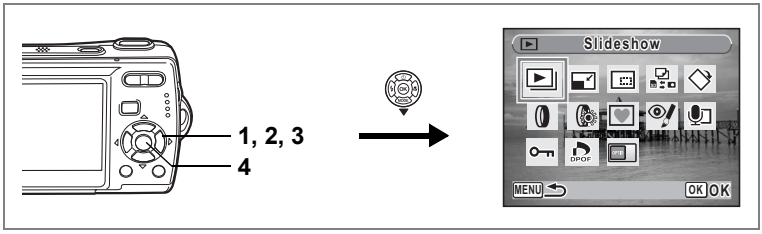

Slideshow

You can play back recorded images one after another.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose an image to start the slideshow with.**

2 **Press the four-way controller (▼).**

The Playback Mode Palette appears.

3 **Use the four-way controller (▲▼◀▶) to select (Slideshow).**

4 **Press the OK button twice.**

The slideshow starts.

Pressing the **OK** button during the slideshow pauses the slideshow. To resume the slideshow, press the **OK** button while the slideshow is paused.

5 **Press any button other than the OK button or the power switch.**

The slideshow stops.

Setting the Slideshow Conditions

You can set the playback interval and also a screen effect and sound effect for when one image changes to the next.

1 **Press the four-way controller (▼) in ▶ mode.**

The Playback Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select (Slideshow).**

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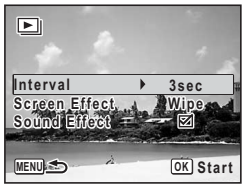
3 **Press the OK button.**

The screen for setting the slideshow conditions appears.



4 **Use the four-way controller (▲▼) to select [Interval].**

5 **Press the four-way controller (▶).**

A pull-down menu appears.

6 **Use the four-way controller (▲▼) to change the interval and press the OK button.**

You can choose from 3sec, 5sec, 10sec, 20sec, and 30sec.

7 **Use the four-way controller (▲▼) to select [Screen Effect].**

After selecting [Screen Effect], press the four-way controller (▶). A pull-down menu appears with the following items that can be selected. Use the four-way controller (▲▼) to select an item and press the **OK** button.

Off	No effect
Wipe	The next image slides over the previous one from left to right
Checker	The next image appears in small square mosaic blocks
Fade	The current image gradually fades out and the next image fades in

8 **Use the four-way controller (▲▼) to select [Sound Effect].**

9 **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

Except when the screen effect is set to Off, you can choose ☑ (On) or □ (Off) for the sound that is played when one image changes to the next.

10 **Press the OK button.**

The slideshow starts using the selected interval and effect.

memo

- The slideshow will continue until you press any button other than the **OK** button or the power switch.
- Movies or pictures with sound will normally be played through to the end before the next picture is played back, regardless of the interval setting. However, pressing the four-way controller (▶) while playing back a movie or a picture with sound skips to the next image.
- Sound files made in Voice Recording mode are not played back in the slideshow.

Connecting the Camera to AV Equipment ☞p.116

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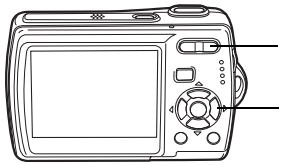
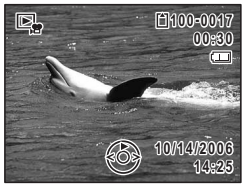
Playing Back Movies



Playing Back a Movie

You can play back the movies you have taken. Sound is played back at the same time.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the movie you want to play back.**



2 **Press the four-way controller (▲).**

Playback starts.

The following operations can be performed during playback.

Four-way controller (◀) Reverse playback
Four-way controller (▲) Pause
Zoom/🌷/🌷 button (🌷) Increases the volume
Zoom/🌷/🌷 button (🌷) Reduces the volume

The following operations can be performed while playback is paused.

Four-way controller (◀) Frame reverse
Four-way controller (▶) Frame forward
Four-way controller (▲) Releases the Pause function (Play)

3 **Press the four-way controller (▼).**

Playback stops.

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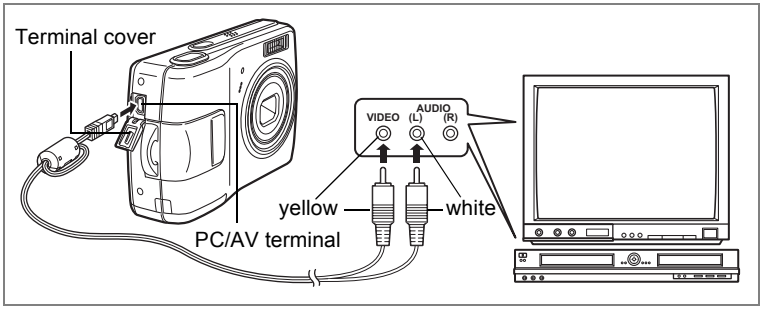
Connecting the Camera to AV Equipment



By using the AV cable, you can take pictures and play back captured images on equipment with a video IN jack, such as a TV. Make sure the camera and TV are turned off before connecting the camera to the TV.

1 Open the terminal cover and connect the AV cable to the PC/AV terminal.

2 Connect the other ends of the AV cable (yellow: video, white: audio) to the AV device's video input terminal and audio input terminal.

When using stereo sound equipment, insert the sound terminal into the L (white) terminal.

3 Turn the AV device on.

When the device that the camera is connected to and the device that plays back images are different, turn both devices on.
When viewing images on AV equipment with multiple video input terminals (such as a TV), refer to the operation manual of the device and select the video input terminal to which the camera is connected.

4 Turn the camera on.

memo

- You are recommended to use the AC adapter kit K-AC51 (optional) if you intend to use the camera for a long time.
- Depending on the country or region, images and sound files may fail to be played back if the video output format is set different from the one in use there. If this happens, change the video output format setting. (p.158)
- The camera LCD monitor turns off while the camera is connected to AV equipment.
- Volume cannot be adjusted with the zoom button while the camera is connected to AV equipment.

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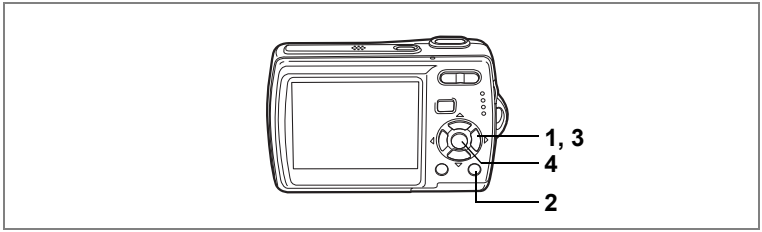
Deleting Images

Delete images and sounds with mistakes or that are unnecessary.



Deleting Single Images/Sound Files

You can delete single images and sound files one at a time.

Caution Protected images and sound files cannot be deleted. (p.122)

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the image/sound file you want to delete.**

2 **Press the 🗑 button.**

The confirmation screen appears.

3 **Use the four-way controller (▲▼) to select [Delete].**

4 **Press the OK button.**

The image or sound file is deleted.

memo If you press the 🗑 button during Instant Review, the screen in Step 2 appears, enabling you to delete the image you have just taken. (p.42)

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Deleting a Sound File

If sound has been recorded with an image (p.146), you can delete the sound without deleting the image.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose an image with sound.**

2 **Press the 🗑 button.**

The confirmation screen appears.

3 **Use the four-way controller (▲▼) to select [Delete Sound].**

4 **Press the OK button.**

The sound file is deleted.

memo Select [Delete] in Step 3 above to delete both the image and sound file.

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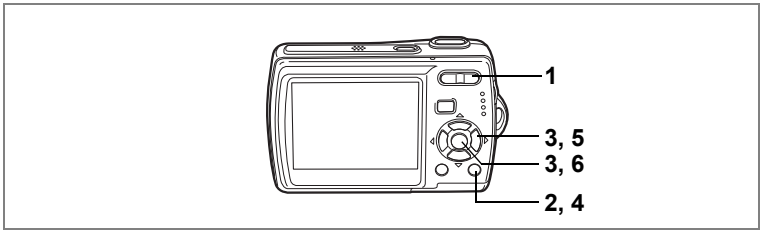

Deleting Selected Images and Sound Files (from Nine-Image Display)

You can delete several images/sound files selected from the nine-image display at once.

Caution Protected images and sound files cannot be deleted.

1 **In ▶ mode, press ⊠ on the Zoom/⊠/🔍 button.**

Nine thumbnail images appear.

2 **Press the 🗑 button.**

□ appears on the images and sound files.

3 **Use the four-way controller (▲▼◀▶) to choose the images and sound files that you want to delete and press the OK button.**

☑ appears on the selected images and sound files.

If you select an image and press 🔍 on the Zoom/⊠/🔍 button, the selected image appears in single-image display for as long as the button is pressed, enabling you to check whether you really want to delete it or not. (The display returns to the nine-image display when you release the button.) However, protected images cannot be displayed in single-image display.

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4 **Press the 🗑 button.**

A confirmation dialog appears.

5 **Use the four-way controller (▲▼) to select [Select & Delete].**

6 **Press the OK button.**

The selected images and sound files are deleted.

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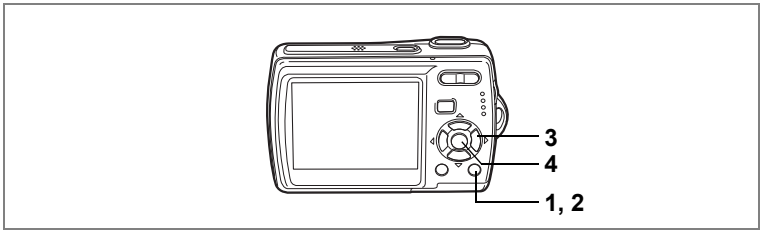


Deleting All Images

You can delete all the images and sound files at once.

Caution Protected images and sound files cannot be deleted. (p.122)

1 **Press the 🗑 button in ▶ mode.**

A confirmation dialog appears.

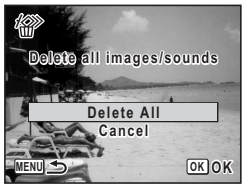
2 **Press the 🗑 button.**

A confirmation dialog appears.

3 **Use the four-way controller (▲▼) to select [Delete All].**

4 **Press the OK button.**

All the images and sound files are deleted.



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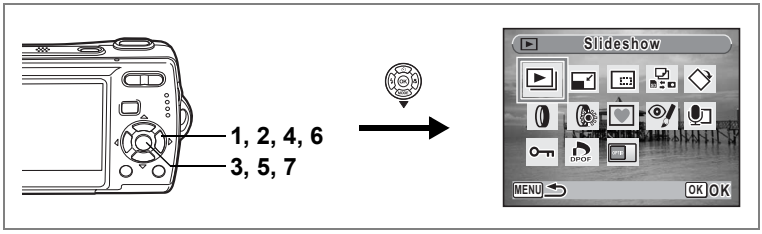

Protecting Images and Sound Files from Deletion (Protect)

You can protect stored images and sound files from being accidentally deleted.

1 **Press the four-way controller (▼) in ▶ mode.**
The Playback Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select 🔑 (Protect).**

3 **Press the OK button.**
The screen for selecting [Select image/sound] or [All Images/Sounds] appears.

4 **Use the four-way controller (▲▼) to select [Select image/sound].**

5 **Press the OK button.**
The message [Protect this image/sound] appears. To protect another image or sound file, use the four-way controller (◀▶) to select another image or sound file.

6 **Use the four-way controller (▲▼) to select [Protect].**

7 **Press the OK button.**
The selected image or sound file is protected.

memo

- To cancel the Protect setting, select [Unprotect] in Step 6.
- 🔑 appears below the file number on protected images and sound files during playback.

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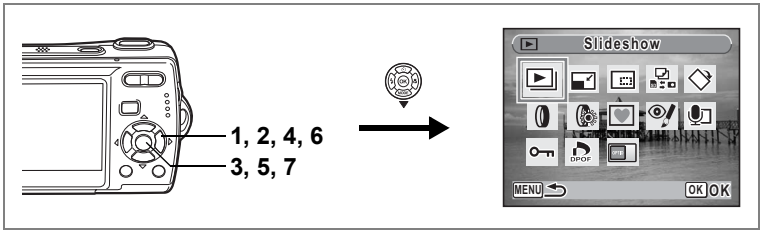


Protecting All Images and Sound Files

1 **Press the four-way controller (▼) in ▶ mode.**

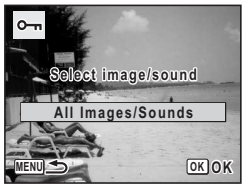
The Playback Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select 🔑 (Protect).**

3 **Press the OK button.**

The screen for selecting [Select image/sound] or [All Images/Sounds] appears.

4 **Use the four-way controller (▲▼) to select [All Images/Sounds].**



5 **Press the OK button.**

The screen for selecting [Protect] or [Unprotect] appears.

6 **Use the four-way controller (▲▼) to select [Protect].**

7 **Press the OK button.**

All the images and sound files are protected.

Caution Protected images and sound files will be deleted when the SD Memory Card or built-in memory is formatted.

memo To cancel the Protect setting on all your images and sound files, select [Unprotect] in Step 6.

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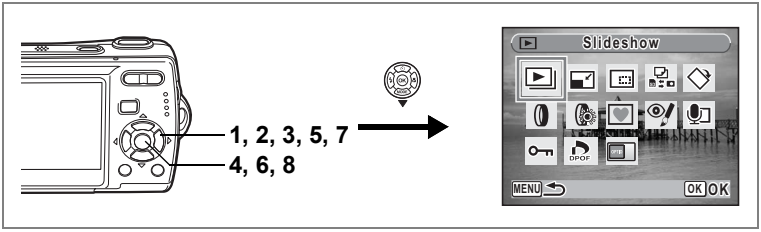

Changing the Image Size and Quality (Resize)

By changing the size and quality of a selected image, you can make the file size smaller than the original. You can use this function to continue taking pictures when the SD Memory Card or built-in memory is full, by making the images smaller and overwriting the original images to make more space available.

memo

- Movies cannot be resized.
- You cannot select a larger resolution or higher quality than that of the original image.

1 Enter the ▶ mode and use the four-way controller (◀▶) to choose the image you want to resize.

2 Press the four-way controller (▼).

The Playback Mode Palette appears.

3 Use the four-way controller (▲▼◀▶) to select (Resize).

4 Press the OK button.

The screen for choosing the size and quality appears.

5 Select [Recorded Pixels] and [Quality Level].

Use the four-way controller (◀▶) to choose the size and quality.
Use the four-way controller (▲▼) to switch between [Recorded Pixels] and [Quality Level].

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6 **Press the OK button.**

A confirmation dialog for overwriting the image appears.
If the image is protected, a confirmation screen does not appear. The image is automatically saved with a new file name.

7 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

8 **Press the OK button.**

The resized image is saved.

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Trimming Images

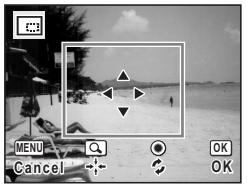
You can delete the unwanted part of a picture and save the trimmed image as a separate image.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the image you want to trim.**

2 **Press the four-way controller (▼).**
The Playback Mode Palette appears.

3 **Use the four-way controller (▲▼◀▶) to select ⊡ (Trimming).**

4 **Press the OK button.**
The Trimming screen appears.



5 **Choose the trimming conditions.**

Zoom/⊡/🔍 button
Changes the size of the trimmed section

Four-way controller (▲▼◀▶)
Moves the trimming position up, down, left and right

Green button
Rotates the trimming frame

6 **Press the OK button.**
The trimmed image is saved with a new file name.
The trimmed image is saved in the same quality as the original image.
The number of recorded pixels is selected automatically according to the size of the trimmed section.

memo Movies cannot be trimmed.

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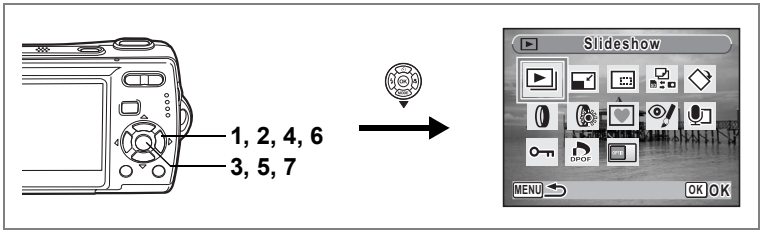


Copying Images and Sound Files

You can copy images and sound files from the built-in memory to the SD Memory Card and vice versa. This function can only be selected when an SD Memory Card has been inserted in the camera.

Caution Make sure that the camera is turned off before inserting or removing the SD Memory Card.

1 **Press the four-way controller (▼) in ▶ mode.**

The Playback Mode Palette appears.

2 **Use the four-way controller (▲▼◀▶) to select (Image/Sound Copy).**

3 **Press the OK button.**

The copying method selection screen appears.

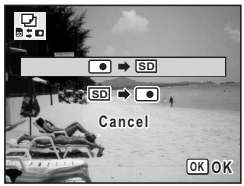
Copying Files from the Built-in Memory to the SD Memory Card

All the images and sound files in the built-in memory are copied to the SD Memory Card at once. Before copying the images, make sure that there is enough space in the SD Memory Card.

4 **Use the four-way controller (▲▼) to select [● ➡ SD].**

5 **Press the OK button.**

All the images and sound files are copied.



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Copying Files from the SD Memory Card to the Built-in Memory

Selected images and sound files from the SD Memory Card are copied to the built-in memory one at a time.

4 **Use the four-way controller (▲▼) to select [SD ➡ ●].**

5 **Press the OK button.**

6 **Use the four-way controller (◀▶) to select the file you want to copy.**

7 **Press the OK button.**

The selected image/sound file is copied.

memo

- If sound has been recorded with the image, the sound file is copied with the image.
- When a file is copied from the SD Memory Card to the built-in memory, it is assigned a new file name.

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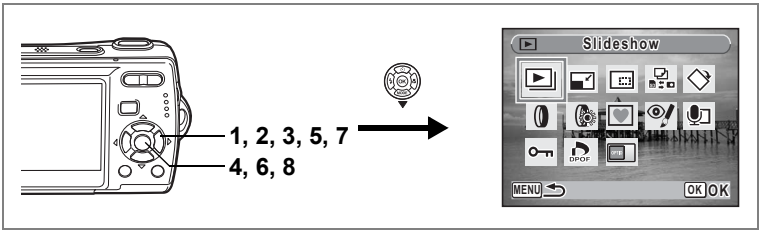


Using the Digital Filters

This function lets you edit selected images with digital filters to change the color, etc.
You can choose from nine filters: B&W, sepia, red, pink, purple, blue, green, yellow and soft.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the image you want to edit.**

2 **Press the four-way controller (▼).**
The Playback Mode Palette appears.

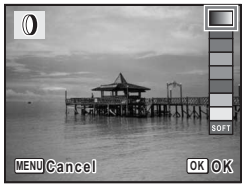
3 **Use the four-way controller (▲▼◀▶) to select (Digital Filter).**

4 **Press the OK button.**
The digital filter selection screen appears.

5 **Use the four-way controller (▲▼) to choose a digital filter.**
You can preview the results of the filter effect.

6 **Press the OK button.**
A confirmation dialog for overwriting the image appears.

7 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**
If the image is protected, a confirmation screen does not appear. The image is automatically saved with a new file name.



8 **Press the OK button.**
The edited image is saved with the same number of recorded pixels and quality level as the original.

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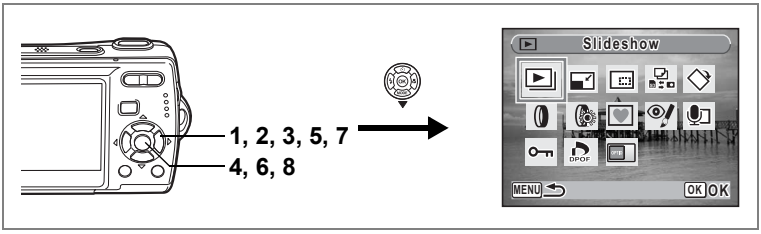

Using the Brightness Filter

This function lets you adjust the brightness of the selected image.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the image you want to edit.**

2 **Press the four-way controller (▼).**

The Playback Mode Palette appears.

3 **Use the four-way controller (▲▼◀▶) to select (Brightness Filter).**

4 **Press the OK button.**

The brightness adjustment screen appears.

5 **Use the four-way controller (◀▶) to adjust the brightness.**

You can preview the results of the brightness adjustment.

6 **Press the OK button.**

A confirmation dialog for overwriting the image appears.

7 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, a confirmation screen does not appear. The image is automatically saved with a new file name.

8 **Press the OK button.**

The edited image is saved with the same number of recorded pixels and quality level as the original.

Caution

Movies or images taken with another camera cannot be edited using [Digital Filter] or [Brightness Filter]. An error message appears if you choose this function from the Playback Mode Palette and press the **OK** button.

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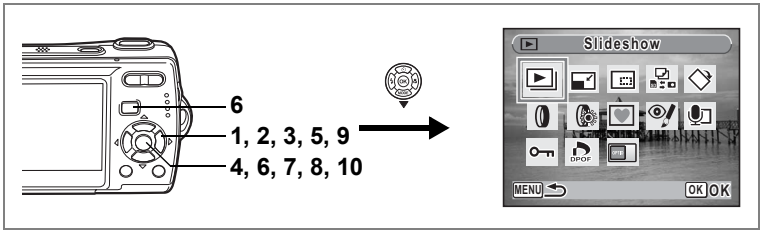


Adding a Frame (Frame Composite)

This function lets you add a decorative frame to still pictures. There are three frames already stored in the camera.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the image to which you want to add a frame.**

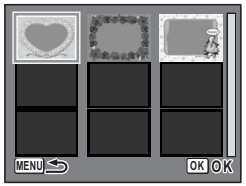
2 **Press the four-way controller (▼).**

The Playback Mode Palette appears.

3 **Use the four-way controller (▲▼◀▶) to select ♥ (Frame Composite).**

4 **Press the OK button.**

A 9-frame display of the frame selection screen appears.



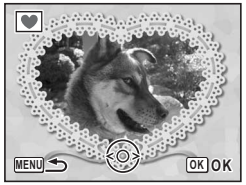
5 **Use the four-way controller (▲▼◀▶) to choose a frame.**

6 **Press the OK button or 🔍 on the Zoom/▪/🔍 button.**

The selected frame appears in single-image display.

You can choose another frame using either of the following operations.

- Use the four-way controller (◀▶) to choose a different frame.
- Press the **MENU** button or ▪ on the Zoom/▪/🔍 button to return to the 9-frame display of the frame selection screen, and then perform Step 5 to choose a different frame.



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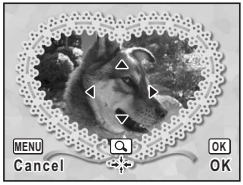
7 Press the OK button.

The frame position and size adjustment screen appears. Use the four-way controller (▲▼◀▶) to adjust the position of the image, and use the Zoom/⊡/🔍 button to make the image larger or smaller.



8 Press the OK button.

A confirmation dialog for overwriting the image appears.

9 Use the four-way controller (▲▼) to select [Overwrite] or [Save as].

If the image is protected, a confirmation screen does not appear. The image is automatically saved with a new file name.

10 Press the OK button.

The edited image is saved with the recorded pixels of 3M.

Caution The Frame Composite function cannot be used on movies or images of size 2M and smaller. An error message appears in Step 4.

Using a New Frame

Frames downloaded from a website or other source can be used when taking pictures. To display the frames available in the built-in memory or the SD Memory Card, in Step 3, select ♥ (Frame Composite) and press the **OK** button.

Visit the PENTAX website at the URL below to download new frames.

http://www.pentax.co.jp/english/support/digital/optio_frame.html

Caution
- The three frames stored in the internal memory cannot be deleted.
- Up to 96 downloaded frames can be displayed. Including the three frames already stored in the internal memory, you can choose from up to 99 frames.

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Red-eye Compensation

You can correct images where the flash has caused the subject to appear with red eyes.

1 **Enter the ▶ mode and use the four-way controller (◀▶) to choose the image you want to correct.**

2 **Press the four-way controller (▼).**

The Playback Mode Palette appears.

3 **Use the four-way controller (▲▼◀▶) to select (Red-eye Compensation).**

4 **Press the OK button.**

A confirmation dialog for overwriting the image appears.

5 **Use the four-way controller (▲▼) to select [Overwrite] or [Save as].**

If the image is protected, a confirmation screen does not appear. The image is automatically saved with a new file name.

6 **Press the OK button.**

The edited image is saved with the same number of recorded pixels and quality level as the original.

Caution

- The red-eye compensation function cannot be used on movies or on images where red eyes cannot be detected on the camera. An error message appears in Step 4.
- The red-eye compensation function can only be used with still pictures taken with this camera.

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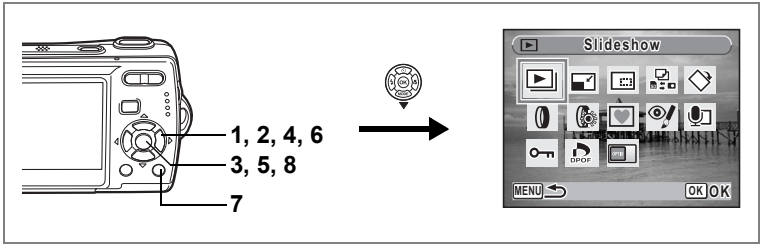
Setting the Printing Service (DPOF)

DPOF (Digital Print Order Format) is the format for storing print order data on still pictures captured with a digital camera. Once the print order data has been stored, the pictures can be printed according to the DPOF settings using a DPOF-compatible printer or photo processing lab. You cannot store print order data for movies or sound-only files.



Printing Single Images

Set the following items for each image.

Copies	Choose the number of copies up to 99.
Date	Specify whether you want the date inserted on the print or not.

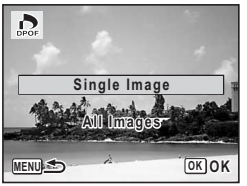
1 Press the four-way controller (▼) in ▶ mode.

The Playback Mode Palette appears.

2 Use the four-way controller (▲▼◀▶) to select DPOF (DPOF).

3 Press the OK button.

The screen for selecting [Single Image] or [All Images] appears.



4 Use the four-way controller (▲▼) to select [Single Image].

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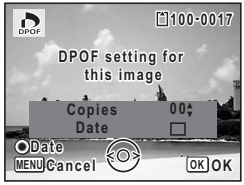
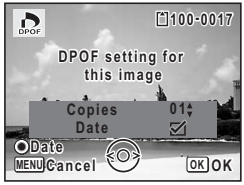
5 Press the OK button.



The message [DPOF setting for this image] appears. To make DPOF settings for another image, use the four-way controller (◀▶) to select another image.
If DPOF settings have already been made for an image, the previous number of copies and date setting (☑ or □) will be displayed.

6 Use the four-way controller (▲▼) to choose the number of copies.

7 Use the Green button to choose whether to insert the date or not.



☑ (On) : The date will be imprinted.
□ (Off) : The date will not be imprinted.
To continue setting DPOF print order data, use the four-way controller (◀▶) to choose another image and repeat Steps 6 and 7.

8 Press the OK button.

The DPOF settings are saved and the screen returns to the DPOF menu.

Caution Depending on the printer or printing equipment at the photo processing lab, the date may not be imprinted on the pictures even if ☑ (On) was selected in the DPOF settings.

memo To cancel DPOF settings, set the number of copies to [00] in Step 6 and press the **OK** button.

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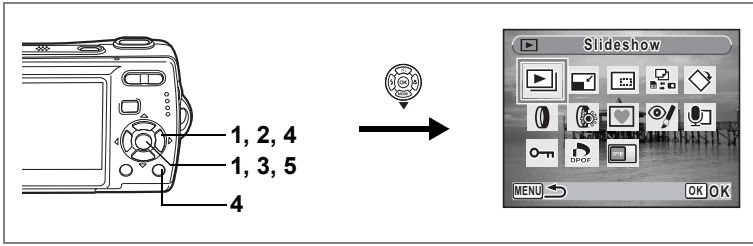


Printing All Images

When you choose the number of copies and whether or not to insert the date, the settings are applied to all the images stored in the camera.

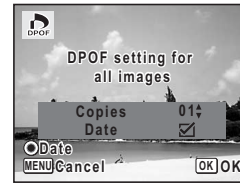
1 **Display the screen for DPOF settings in ▶ mode.**

Refer to Steps 1 to 3 on p.134.

2 **Use the four-way controller (▲▼) to select [All Images].**

3 **Press the OK button.**

The message [DPOF setting for all images] appears.



4 **Choose the number of copies and whether to insert the date or not.**

Refer to Steps 6 and 7 in “Printing Single Images” (p.135) for details of how to make the settings.

5 **Press the OK button.**

The DPOF settings for all the images are saved and the camera returns to the DPOF setting screen.

Caution The number of copies specified in the DPOF settings applies to all the images. Before printing, check that the number is correct.

memo Settings for single images are canceled when settings are made for all images.

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Printing Using PictBridge

By connecting the camera to a printer that supports PictBridge using the USB cable (I-USB7) provided, you can print images directly from the camera without using a PC. Connect the camera to the printer and select the images you want to print and the number of copies on the camera.

Caution

- You are recommended to use the AC adapter kit K-AC51 when the camera is connected to the printer. The printer may not work properly or the image data may be lost if the batteries run out of power while the camera is connected to the printer.
- Do not disconnect the USB cable during data transfer.
- Depending on the type of printer, not all the settings made on the camera (such as print settings and DPOF settings) may be valid.
- A printing error may occur if the selected number of copies exceeds 500.
- Printing the index of the images (printing multiple images on a single sheet) cannot be performed directly from the camera. Make the settings on a printer supporting index printing function or use a PC.

Connecting the Camera to the Printer

1 Select [PictBridge] for the [USB Connection] mode on the [Setting] menu.

Refer to “Changing the USB Connection Mode” (p.157).

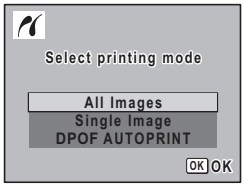
2 Turn off the camera.

3 Connect the camera to the printer using the USB cable provided.

4 Turn the printer on.

5 When the printer is ready to print, turn the camera on.

The printing mode selection screen appears.



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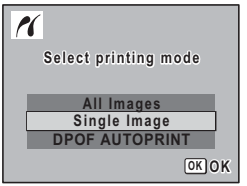
Printing Single Images

1 **In the printing mode selection screen, use the four-way controller (▲▼) to select [Single Image].**

2 **Press the OK button.**

The setting screen appears.



3 **Use the four-way controller (◄►) to choose an image to print.**

4 **Use the four-way controller (▲▼) to choose the number of copies.**

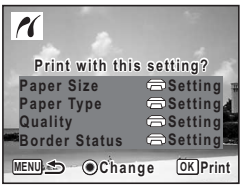
You can print up to 99 copies.

5 **Use the Green button to choose whether to insert the date or not.**

☑ (On) : The date will be imprinted.
□ (Off) : The date will not be imprinted.

6 **Press the OK button.**

A confirmation dialog appears.
To print the pictures according to the print settings on the printer, press the **OK** button.
To change the print settings, go to Step 7.

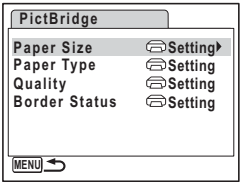


7 **Press the Green button.**

The screen for changing the print settings appears.

8 **Select [Paper Size] and press the four-way controller (►).**

The Paper Size screen appears.



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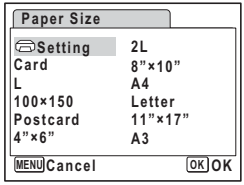
9 Use the four-way controller (▲▼◀▶) to choose the paper size.



You can only choose a size that is supported by your printer.

10 Press the OK button.

The Paper Size setting is saved, and the screen returns to the print settings screen.

11 Use the four-way controller (▲▼) to select [Paper Type] and press the four-way controller (▶).

A pull-down menu appears.

12 Use the four-way controller (▲▼) to select the paper type and press the OK button.

The Paper Type setting is saved, and the screen returns to the print settings screen. Set [Quality] and [Border Status] in the same way as in Steps 11 and 12.
If you select [Setting] for each print setting, images are printed according to the settings made on the printer.
Paper Type with more ★ supports higher quality paper.
Quality with more ★ indicates higher print quality.
A confirmation dialog appears after each item has been set.

13 Press the MENU button.

The screen returns to the confirmation dialog.

14 Press the OK button.

The image is printed according to the settings.
Press the **MENU** button to cancel printing.

memo

- The self-timer lamp lights while the camera is communicating with the printer, and blinks while the card is being accessed and during printing. Do not disconnect the USB cable while the self-timer lamp is blinking.
- The [Paper Size], [Paper Type], [Quality] and [Border Status] settings are reset to the defaults when the camera is turned off.

Disconnecting the Cable from the Printer ☞p.141

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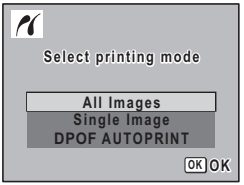
Printing All Images

1 **In the printing mode selection screen, use the four-way controller (▲▼) to select [All Images].**



2 **Press the OK button.**

The setting screen appears.

3 **Choose the number of copies and whether to insert the date or not.**

The number of copies and date setting that you choose apply to all the images.
Refer to Steps 4 and 5 in “Printing Single Images” (p.138) for details of how to make the settings.

4 **Press the OK button.**

A confirmation dialog appears.
Refer to Steps 7 to 11 of “Printing Single Images” (p.138 and p.139) for details of changing print settings.

5 **Press the OK button on the print settings confirmation screen.**

All the images are printed according to the settings.
Press the **MENU** button to cancel printing.

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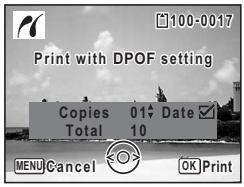
Printing Using the DPOF Settings

1 **In the printing mode selection screen, use the four-way controller (▲▼) to select [DPOF AUTOPRINT].**

2 **Press the OK button.**



The DPOF settings you have made appear. Use the four-way controller (◄►) to check the number of copies for each picture, whether to insert the date or not, and the total number of copies. Refer to p.134 for instructions on how to make the DPOF settings.

3 **Press the OK button.**

A confirmation dialog appears.
Refer to Steps 7 to 11 of "Printing Single Images" (p.138 and p.139) for details of changing print settings.

4 **Press the OK button on the print settings confirmation screen.**

The images are printed according to the settings.
Press the **MENU** button to cancel printing.

Disconnecting the Cable from the Printer

Disconnect the USB cable from the camera and printer when you have finished printing.

1 **Turn off the camera.**

2 **Disconnect the USB cable from the camera and printer.**

Printing Using ImageLink

This camera is compatible with the ImageLink print system.
Instead of using a USB cable, connect the supplied O-DI58 dock insert and Kodak EasyShare Printer Dock and place the camera on the dock insert to connect the camera to the printer dock. You can print images by simply pressing a button on the printer dock.
Refer to the operating manual that came with your printer dock for information on how to print images and other details.

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Caution

- Some printer functions may not work when using the camera with a printer dock.
- The camera cannot be connected to another printer or PC via USB while connected to the printer dock.

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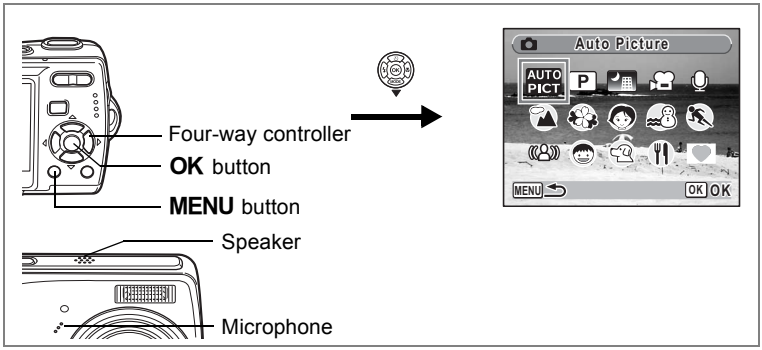
Recording Sound (Voice Recording Mode)

You can record sound with the camera. The microphone is located above and to the left of the lens on the camera. When recording sound, aim the camera to obtain the best conditions.



1 **Press the four-way controller (▼) in 📷 mode.**

The Capture Mode Palette appears.

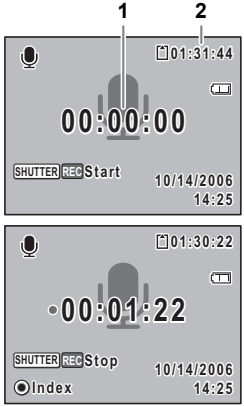
2 **Use the four-way controller (▲▼◀▶) to select 🎤 (Voice Recording).**

3 **Press the OK button.**

The remaining recordable time and the recording time of the current file appear on the LCD monitor.

1 Recording time

2 Remaining recordable time



4 **Press the shutter release button fully.**

Recording starts. The self-timer lamp blinks during recording. You can record up to 24 hours of sound consecutively.

When the Green button is pressed during recording, an index can be added to the current sound file.

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5 Press the shutter release button fully.

Recording stops.

- If you press and hold down the shutter release button for more than one second in Step 4, recording continues until you take your finger off the button.
- Sound is saved in WAVE monaural files.

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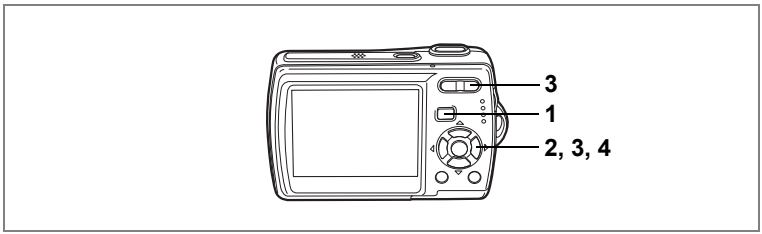
Playing Back Sound

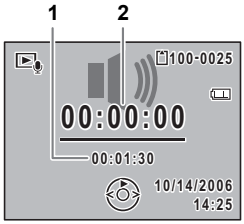
You can play back the sound files you made in mode.



1 **Press the button.**

2 **Use the four-way controller (◄►) to choose a sound file to play back.**

3 **Press the four-way controller (▲).**



The sound file is played back.

1 Total file recording time

2 Playback time

The following operations can be performed during playback.

Four-way controller (▲) Pauses playback
Zoom/ / button ( ) Increases the volume
Zoom/ / button ( ) Reduces the volume

If there are no recorded indexes:

Four-way controller (◄) Reverses playback
Four-way controller (►) Fast forwards playback

If there are recorded indexes:

Four-way controller (◄) Plays back starting from the previous index
Four-way controller (►) Plays back starting from the next index

The following operations can be performed while playback is paused.

Four-way controller (▲) Resumes playback
Four-way controller (◄) Rewinds approx. 5 seconds
Four-way controller (►) Advances approx. 5 seconds

4 **Press the four-way controller (▼).**

Playback stops.

memo

If an SD Memory Card is inserted and you press and hold the button for more than one second in step 1, sound recorded in the internal memory is played back. (p.106)

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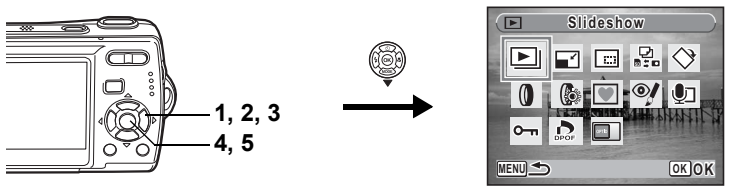
Adding a Voice Memo to Images

You can add a voice memo to your still pictures.



Recording a Voice Memo

1 **Enter ▶ mode and use the four-way controller (◀▶) to choose the still picture to which you want to add a voice memo.**

2 **Press the four-way controller (▼).**

The Playback Mode Palette appears.

3 **Use the four-way controller (▲▼◀▶) to select 🎙 (Voice Memo).**

4 **Press the OK button.**

Recording starts. You can record up to 24 hours of voice memos consecutively.

5 **Press the OK button.**

Recording stops.

memo

- A voice memo cannot be added to an image that already has a voice memo. Delete the old voice memo and record a new one. (p.118)
- A voice memo cannot be added to protected (🔑) images (p.122).

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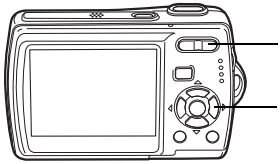

Playing Back a Voice Memo

1 Enter the Playback mode and use the four-way controller (◀▶) to choose the still picture with the voice memo that you want to play back.

[♪] appears on images with voice memos in single-image display.

2 Press the four-way controller (▲).

Playback starts.

The following operations can be performed during playback.

Zoom/🌷/🌷 button (🌷) Increases the volume
Zoom/🌷/🌷 button (🌷) Reduces the volume

3 Press the four-way controller (▼).

Playback stops.

Deleting a Sound File ☞p.118

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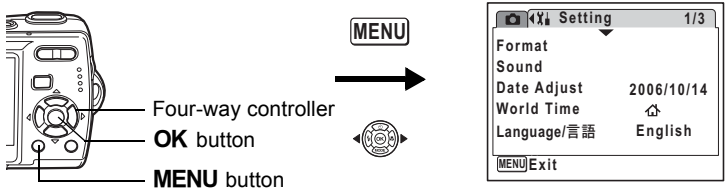
How to display the [Setting] menu



Formatting an SD Memory Card or the Built-in Memory

Formatting will delete all the data on the SD Memory Card.
All the data in the built-in memory will be deleted if no SD Memory Card is inserted in the camera.

Caution

- Do not remove the SD Memory Card during formatting as this may damage the card and render it unusable.
- Formatting will delete protected images and any data recorded on the card with a camera other than this camera.
- SD Memory Cards formatted on a PC or device other than the camera cannot be used. Be sure to format the card with the camera.

1 Use the four-way controller (▲▼) to select [Format] on the [Setting] menu.

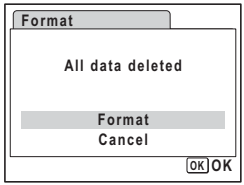
2 Press the four-way controller (▶).

The Format screen appears.

3 Use the four-way controller (▲▼) to select [Format].

4 Press the OK button.

Formatting starts. When formatting is completed, the camera returns to Capture mode or Playback mode.



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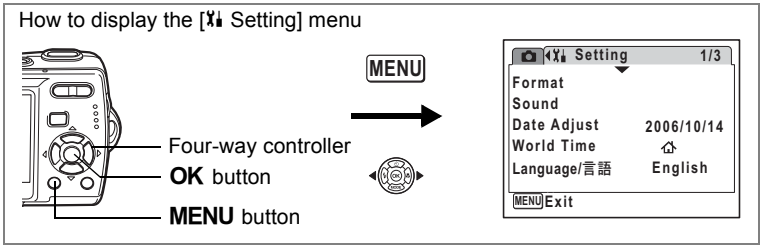


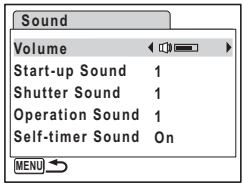
Changing the Sound Settings

You can adjust the volume of operation sounds and change the type of sound.

1 Use the four-way controller (▲▼) to select [Sound] on the [Setting] menu.

2 Press the four-way controller (▶).

The Sound screen appears.



Changing the Operation Volume

3 Use the four-way controller (▲▼) to select [Volume].

4 Use the four-way controller (◀▶) to adjust the volume.

The selected volume is saved.
Set the volume to 0 to mute the start-up sound, shutter sound, operation sound, and self-timer sound.

Changing the Sound Type

5 Use the four-way controller (▲▼) to select [Start-up Sound].

6 Press the four-way controller (▶).

A pull-down menu appears.

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7 **Use the four-way controller (▲▼) to select [1], [2], [3] or [Off] and press OK button.**

The selected sound type is saved.

8 **Set [Shutter Sound], [Operation Sound] and [Self-timer Sound] in the same way as in Steps 5 to 7.**

Select [On] or [Off] for the self-timer sound.

9 **Press the MENU button.**

The screen returns to the [Setting] menu with the changed setting.

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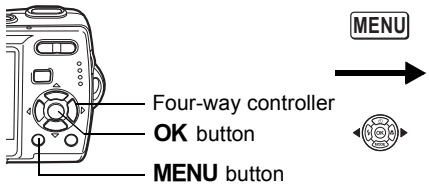
How to display the [Setting] menu



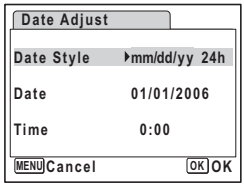
Changing the Date and Time

You can change the initial date and time settings. You can also set the style in which the date appears on the camera.

1 **Use the four-way controller (▲▼) to select [Date Adjust] on the [Setting] menu.**

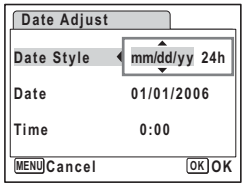
2 **Press the four-way controller (▶).**

The Date Adjust screen appears.



3 **Press the four-way controller (▶).**

The frame moves to [mm/dd/yy]. Depending on the initial setting or previous setting, [dd/mm/yy] or [yy/mm/dd] may be displayed.



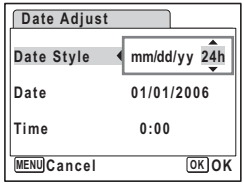
4 **Use the four-way controller (▲▼) to choose the date display style.**

Choose [mm/dd/yy], [dd/mm/yy] or [yy/mm/dd].

5 **Press the four-way controller (▶).**

The frame moves to [24h].

6 **Use the four-way controller (▲▼) to select [24h] (24-hour display) or [12h] (12-hour display).**



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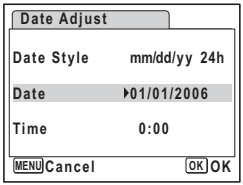
7 **Press the four-way controller (▶).**

The frame returns to [Date Style].

8 **Press the four-way controller (▼).**

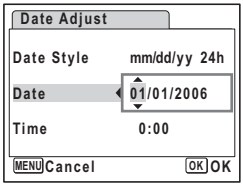
The frame moves to [Date].



9 **Press the four-way controller (▶).**

The frame moves to one of the following items depending on the date style set in Step 4.

For [mm/dd/yy] month (Example: [01])
For [dd/mm/yy] day (Example: [01])
For [yy/mm/dd] year (Example: [2006])



The following operations and screens use [mm/dd/yy] as an example. The operations are the same even if another date style has been selected.

10 **Use the four-way controller (▲▼) to change the month.**

11 **Press the four-way controller (▶).**

The frame moves to the day field. Use the four-way controller (▲▼) to change the day. After changing the day, change the year in the same manner.

12 **Change the time in the same way as in Steps 7 to 10.**

If you selected [12h] in Step 6, the setting switches between am and pm corresponding to the time.

13 **Press the OK button.**

The date and time settings are saved.

memo

When you finish the settings and press the **OK** button, the camera clock is reset to 00 seconds. To set the exact time, press the **OK** button when the time signal (on the TV, radio, etc.) reaches 00 seconds.

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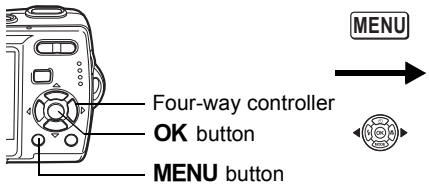
How to display the [Setting] menu



Setting the World Time

The date and time selected in “Setting the Date and Time” (p.37) and “Changing the Date and Time” (p.151) serve as the ⌂ (Hometown) date and time. By using the world time function, you can display the time in a city other than the Hometown (✈Destination). This is useful when taking pictures in a different time zone.

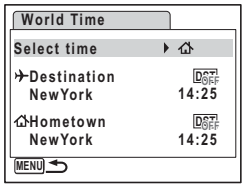
Setting the Destination

1 **Use the four-way controller (▲▼) to select [World Time] on the [Setting] menu.**

2 **Press the four-way controller (▶).**

The World Time screen appears.

3 **Use the four-way controller (▲▼) to select ✈ (Destination).**

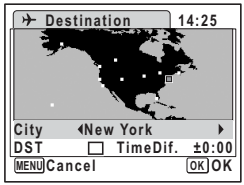


4 **Press the four-way controller (▶).**

The Destination screen appears. The city that is currently selected blinks on the map.

5 **Use the four-way controller (◀▶) to change the Destination city.**

The current time, location and time difference of the selected city appear.



6 **Use the four-way controller (▲▼) to select [DST].**

7 **Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).**

Select ☑ (On) if the Destination city uses daylight saving time.

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8 **Press the OK button.**

The World Time setting is saved.

9 **Press the MENU button twice.**

The camera returns to capture status with the current setting.

memo Select ⌂ (Hometown) in Step 3 of p.153 to set the city and DST setting for the Hometown city.

Displaying the Time of the Destination on the LCD Monitor (Select Time)

1 **Use the four-way controller (▲▼) to select [World Time] on the [Setting] menu.**

2 **Press the four-way controller (▶).**

The World Time screen appears.

3 **Use the four-way controller (▲▼) to select [Select time].**

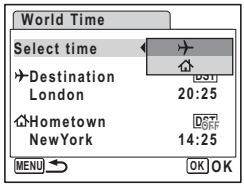
4 **Press the four-way controller (▶).**

A pull-down menu appears.

5 **Use the four-way controller (▲▼) to select ✈ (Destination) or ⌂ (Hometown).**

✈ : Displays the time in the city selected as the Destination city

⌂ : Displays the time in the city selected as the Hometown city



6 **Press the OK button.**

The Select time setting is saved.

7 **Press the MENU button twice.**

The camera returns to 📷 mode or ▶ mode. ✈ (Destination) appears on the LCD monitor when the camera returns to 📷 mode and World Time is selected.

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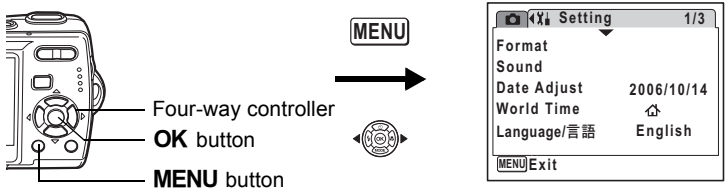
How to display the [Setting] menu



Changing the Display Language

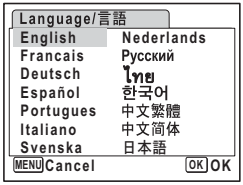
You can change the language in which the menus, error messages, etc. are displayed.

You can choose from English, French, German, Spanish, Portuguese, Italian, Swedish, Dutch, Russian, Thai, Korean, Chinese (traditional and simplified) and Japanese.

1 **Use the four-way controller (▲▼) to select [Language/言語] on the [Setting] menu.**

2 **Press the four-way controller (▶).**

The Language/言語 screen appears.



3 **Use the four-way controller (▲▼◀▶) to select the language.**

4 **Press the OK button.**

The selected language is set to be displayed.

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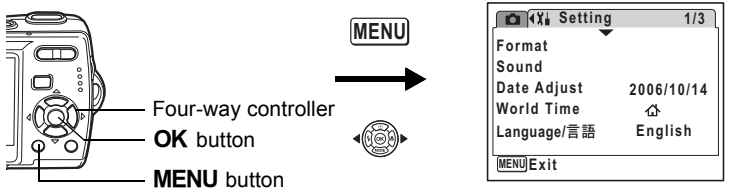
How to display the [Setting] menu



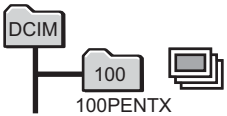
Changing the Image Folder Name

You can change the image folder name from the standard name to the date that pictures were taken. When the name is changed to the date, pictures are saved in separate folders by the date they were taken.

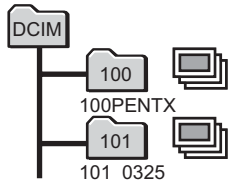
Folder Name

Standard	XXXPENTX (where XXX is the 3-digit folder number)
Date	XXX_mmdd (3-digit folder number_month day) * xxx_ddmm (3-digit folder number_day month) when the date style is set to [dd/mm/yy].

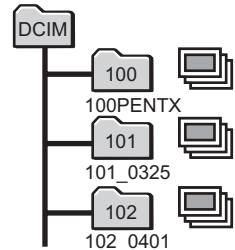
Picture taken with standard folder name (Example: March 25)



Folder name changed to date setting (Example: March 25)



Next time a picture is taken (Example: April 1)



1 Use the four-way controller (▲▼) to select [Folder Name] on the [Setting] menu.

2 Press the four-way controller (▶).
A pull-down menu appears.

3 Use the four-way controller (▲▼) to select [Standard] or [Date].

4 Press the OK button.
The Folder Name setting is saved.

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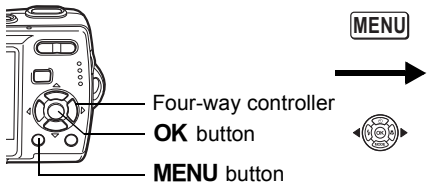
How to display the [Setting] menu



Changing the USB Connection Mode

Choose the appropriate USB connection mode depending on whether you are going to connect the USB cable to a PC or a PictBridge-compatible printer.

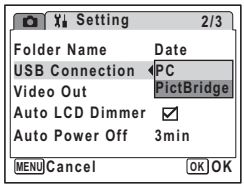
memo Refer to the PC Connection Manual for instructions on connecting the camera to a computer.

1 **Use the four-way controller (▲▼) to select [USB Connection] on the [Setting] menu.**

2 **Press the four-way controller (▶).**

A pull-down menu appears.

3 **Use the four-way controller (▲▼) to select [PC] or [PictBridge].**



[PC] : Select this option when transferring image data to a computer

[PictBridge] : Select this option when connecting the camera to a PictBridge-compatible printer

4 **Press the OK button.**

The USB Connection setting is saved.

Caution Do not connect the camera to your PC while [PictBridge] is selected for the USB Connection mode. And do not connect the camera to your printer while [PC] is selected.

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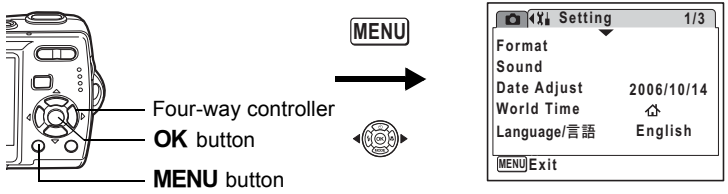
How to display the [Setting] menu



Changing the Video Output Format

When you connect the camera to AV equipment, choose the appropriate video output format (NTSC or PAL) for taking and playing back images.

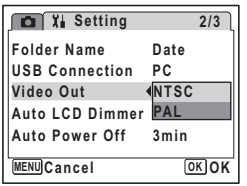
1 Use the four-way controller (▲▼) to select [Video Out] on the [Setting] menu.

2 Press the four-way controller (▶).

A pull-down menu appears.

3 Use the four-way controller (▲▼) to select [NTSC] or [PAL].

Choose the video output format to match the output format of the AV equipment.



4 Press the OK button.

The Video Out setting is saved.

memo

Depending on the country or region, images and sound files may fail to be played back if the video output format is set different from the one in use there. If this happens, change the video output format setting.

Connecting the Camera to AV Equipment ☞p.116

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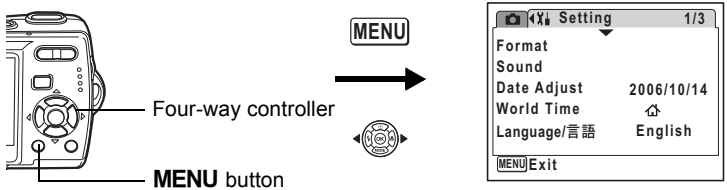
How to display the [Setting] menu

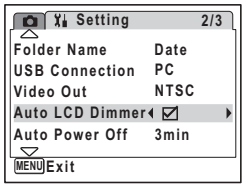


Automatically Adjusting the Brightness of the LCD Monitor (Auto LCD Dimmer)

You can use the Auto LCD Dimmer to automatically adjust the brightness of the LCD monitor to the optimal setting according to the surrounding brightness.

1 **Use the four-way controller (▲▼) to select [Auto LCD Dimmer] on the [Setting] menu.**

2 **Use the four-way controller (◄►) to select ☑ (On) or □ (Off).**



The following setting is saved.
On: The Auto LCD Dimmer is turned on.
Off: The Auto LCD Dimmer is turned off.

3 **Press the MENU button.**

The camera returns to Capture mode or Playback mode.
To change the setting, perform the above steps again.

memo

The Auto LCD Dimmer does not function in the following situations:
- in ▶ mode
- while the camera is connected to a PC or printer
- while recording a movie

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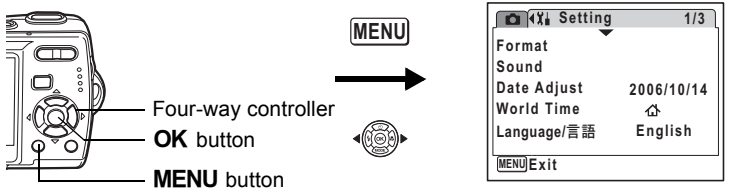
How to display the [Setting] menu



Setting Auto Power Off

You can set the camera to turn off automatically when no operation is performed for a fixed time.

1 **Use the four-way controller (▲▼) to select [Auto Power Off] on the [Setting] menu.**

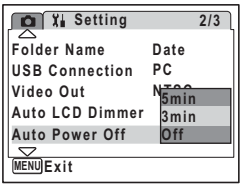
2 **Press the four-way controller (▶).**

A pull-down menu appears.

3 **Use the four-way controller (▲▼) to select [5min], [3min] or [Off].**

4 **Press the OK button.**

The Auto Power Off setting is saved.



memo

Auto Power Off does not function in the following situations:
- during a slideshow or movie playback
- while the camera is connected to a PC or printer

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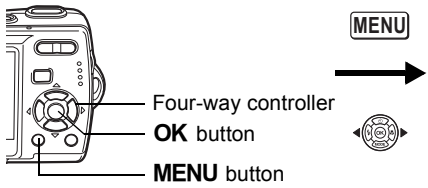
How to display the [Setting] menu

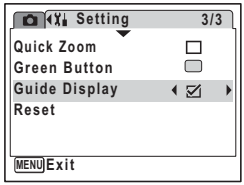


Setting the Guide Display

You can set to display or hide guides when the mode is selected in Capture Mode Palette (p.52) and Playback Mode Palette (p.58), and shooting mode display when the power is turned on.

1 Use the four-way controller (▲▼) to select [Guide Display] on the [Setting] menu.

2 Use the four-way controller (◀▶) to select ☑ (On) or □ (Off).



The following setting is saved.
On : Display
Off : Hide

3 Press the MENU button.

The camera returns to Capture mode or Playback mode.
To change the setting, perform the above steps again.

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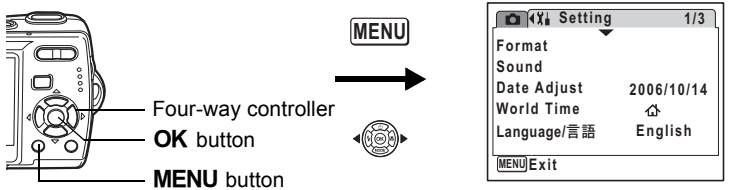
How to display the [Setting] menu



Resetting to Default Settings (Reset)

You can reset the camera settings to their defaults. Refer to “Default Settings” (p.166) for the reset settings.

1 **Use the four-way controller (▲▼) to select [Reset] on the [Setting] menu.**

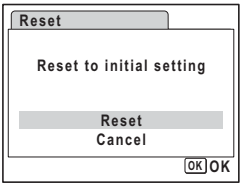
2 **Press the four-way controller (▶).**

The Reset screen appears.

3 **Use the four-way controller (▲▼) to select [Reset].**

4 **Press the OK button.**

The settings return to the defaults.



memo The following settings are not affected by resetting:
Date Adjust, Language/言語 and Video Out.

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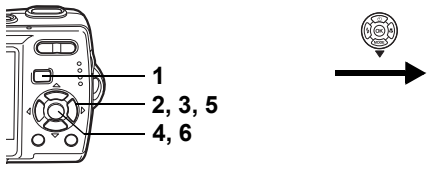
How to display the Playback Mode Palette



Changing the Start-up Screen

You can choose an image to be displayed as the start-up screen when the camera is turned on.

1 **Press the ▶ button.**

The camera enters ▶ mode.

2 **Press the four-way controller (▼).**

The Playback Mode Palette appears.

3 **Use the four-way controller (▲▼◀▶) to select (Start-up Screen).**

4 **Press the OK button.**

The image selection screen appears.

5 **Use the four-way controller (◀▶) to choose an image for the start-up screen.**

6 **Press the OK button.**

The Start-up Screen setting is saved.

memo

- Once the start-up screen has been set, it will not be deleted even if the original image is deleted or the SD Memory Card or built-in memory is formatted.
- Select [Off] to hide the start-up screen.

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List of World Time Cities

The following are cities that can be set for [Hometown] and [Destination] in World Time.

Region	City	Video output
North America	Honolulu	NTSC
	Anchorage	NTSC
	Vancouver	NTSC
	San Francisco	NTSC
	Los Angeles	NTSC
	Calgary	NTSC
	Denver	NTSC
	Chicago	NTSC
	Miami	NTSC
	Toronto	NTSC
	New York	NTSC
	Halifax	NTSC
Central and South America	Mexico City	NTSC
	Lima	NTSC
	Santiago	NTSC
	Caracas	NTSC
	Buenos Aires	PAL
	Sao Paulo	PAL
	Rio de Janeiro	PAL
Europe	Lisbon	PAL
	Madrid	PAL
	London	PAL
	Paris	PAL
	Amsterdam	PAL
	Milan	PAL
	Rome	PAL
	Berlin	PAL
	Stockholm	PAL
	Athens	PAL
	Helsinki	PAL
	Moscow	PAL
Africa/ West Asia	Dakar	PAL
	Algiers	PAL
	Johannesburg	PAL
	Istanbul	PAL
	Cairo	PAL

Region	City	Video output
Africa/ West Asia	Jerusalem	PAL
	Nairobi	PAL
	Jeddah	PAL
	Tehran	PAL
	Dubai	PAL
	Karachi	PAL
	Kabul	PAL
	Male	PAL
	Delhi	PAL
	Colombo	PAL
	Kathmandu	PAL
	Dacca	PAL
East Asia	Yangon	NTSC
	Bangkok	PAL
	Kuala Lumpur	PAL
	Vientiane	PAL
	Singapore	PAL
	Phnom Penh	PAL
	Ho Chi Minh	PAL
	Jakarta	PAL
	Hong Kong	PAL
	Beijing	PAL
	Shanghai	PAL
	Manila	NTSC
	Taipei	NTSC
	Seoul	NTSC
	Tokyo	NTSC
	Guam	NTSC
Oceania	Perth	PAL
	Adelaide	PAL
	Sydney	PAL
	Noumea	PAL
	Wellington	PAL
	Auckland	PAL
	Pago Pago	NTSC

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- The video output mode shown in the Video output column in the table on the left is selected when Hometown is selected in Initial Setting (p.34).
- Change the video output mode manually when Hometown in [World Time] of the [Settings] is changed.

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Default Settings

The table below lists the factory default settings.
The meaning of the indications for menu items with a default setting is explained below.

Last Memory Setting

Yes : The current setting (last memory) is saved when the camera is turned off.
No : The setting returns to the default setting when the camera is turned off.
* : The setting depends on the [Memory] setting (p.96).

Reset Setting

Yes : The setting returns to the default setting with the Reset function (p.162).
No : The setting is saved even after reset.

● **[Rec. Mode] Menu Items**

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Recorded Pixels		7M (3072×2304)	Yes	Yes	p.83
Quality Level		★★ (Better)	Yes	Yes	p.85
White Balance		**AWB** (Auto)	*	Yes	p.87
Focusing Area		[ ] (Multiple)	Yes	Yes	p.89
Sensitivity		Auto	*	Yes	p.90
EV Compensation		±0.0	*	Yes	p.76
Movie	Recorded Pixels	640 (640×480)	Yes	Yes	p.100
	Quality Level	★★★ (Best)	Yes	Yes	p.102
	Color Mode	Full Color	Yes	Yes	p.104
	Frame Rate	30fps	Yes	Yes	p.103
	Movie anti-shake	On	Yes	Yes	p.105
Digital Zoom		On	*	Yes	p.75
Instant Review		1 sec	Yes	Yes	p.92
Memory	Flash Mode	On	—	Yes	p.81
	Drive Mode	Off	—	Yes	p.72, p.73
	Focus Mode	Off	—	Yes	p.79
	Zoom Position	Off	—	Yes	p.74

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Item		Default Setting	Last Memory Setting	Reset Setting	Page
Memory	MF Position	Off	—	Yes	p.80
	White Balance	Off	—	Yes	p.87
	Sensitivity	Off	—	Yes	p.90
	EV Compensation	Off	—	Yes	p.76
	Digital Zoom	On	—	Yes	p.75
	DISPLAY	Off	—	Yes	p.77, p.112
	File #	On	—	Yes	—
Sharpness		Normal	Yes	Yes	p.93
Saturation		Normal	Yes	Yes	p.94
Contrast		Normal	Yes	Yes	p.95

● [Setting] Menu Items

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Sound	Volume	3	Yes	Yes	p.149
	Start-up Sound	1	Yes	Yes	
	Shutter Sound	1	Yes	Yes	
	Operation Sound	1	Yes	Yes	
	Self-timer Sound	On	Yes	Yes	
Date Adjust	Date Style (date)	According to initial setting	Yes	No	p.37
	Date Style (time)	According to initial setting	Yes	No	
	Date	According to initial setting	Yes	No	
	Time	According to initial setting	Yes	No	
World Time	World Time Setting	Off	Yes	No	p.153
	Destination (City)	Same as Hometown	Yes	No	
	Destination (DST)	Same as Hometown	Yes	No	
	Hometown (City)	According to initial setting	Yes	No	
	Hometown (DST)	According to initial setting	Yes	No	
Language/言語		According to initial setting	Yes	No	p.34
Folder Name		Standard	Yes	Yes	p.156
USB Connection		PC	Yes	Yes	p.157
Video Out		According to initial setting	Yes	No	p.158
Auto LCD Dimmer		On	Yes	Yes	p.159
Auto Power Off		3 min	Yes	Yes	p.160

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Item	Default Setting	Last Memory Setting	Reset Setting	Page
Quick Zoom	Off	Yes	Yes	p.111
Green Button	Green Mode	Yes	Yes	p.56
Guide Display	On	Yes	Yes	p.161

● Playback Mode Palette Items

Item		Default Setting	Last Memory Setting	Reset Setting	Page
Slideshow	Interval	3 sec	Yes	Yes	p.113
	Screen Effect	Wipe	Yes	Yes	
	Sound Effect	On	Yes	Yes	
Start-up Screen	Optio Logo screen	On	Yes	Yes	p.163

● Key Operation

Item		Function	Default Setting	Last Memory Setting	Reset Setting	Page
▶ button		Operation Mode	▶ mode	—	—	—
Zoom/🌷/🌷 button		Zoom Position	Wide	*	Yes	p.74
Four-way controller	▲	Drive Mode	□ (Normal)	*	Yes	p.72, p.73
	▼	Shooting Mode	AUTO PICT (Auto Picture)	Yes	Yes	p.52
	◀	Flash Mode	$\mathrm{ϟ_A}$ (Auto)	*	Yes	p.81
	▶	Focus Mode	**AF** (Standard)	*	Yes	p.79
MENU button		Menu Display	Capture mode: [📷 Rec. Mode] menu Playback mode: [🔧 Setting] menu	—	—	p.47
OK/**DISPLAY** button		Information Display	Normal	*	Yes	p.77, p.112

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Functions Available for Each Shooting Mode

Yes : Can be set and function is available.
No : Cannot be set.
: Can be set but function is not available.

		AUTO PICT	P								
(Auto)	Yes	Yes	Yes	No	No*3	No	Yes	Yes	Yes	Yes	Yes
(Flash Off)	Yes	Yes	Yes	Yes	Yes*3	No	Yes	Yes	Yes	Yes	Yes
(Flash On)	No	Yes	Yes	Yes	No*3	No	Yes	Yes	Yes	Yes	Yes
(Auto + Red-eye)	No	Yes	Yes	No	No*3	No	Yes	Yes	Yes	Yes	Yes
(Flash On + Red-eye)	No	Yes	Yes	Yes	No*3	No	Yes	Yes	Yes	Yes	Yes
(Soft)	No	Yes	Yes	Yes	No*3	No	Yes	Yes	Yes	Yes	Yes
(Self-timer)	Yes*1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
(2 Sec. Self-timer)	Yes*1	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
(Continuous Shooting)	No	No	Yes	No	No	No	Yes	No	Yes	No	Yes
AF (Standard)	Yes	Yes	Yes	Yes	No*4	No	Yes	Yes	Yes	Yes	Yes
(Macro)	Yes	Yes	Yes	Yes	No*4	No	Yes	Yes	Yes	Yes	Yes
(Super Macro)	Yes	Yes	Yes	Yes	No*4	No	Yes	Yes	Yes	No	Yes
(Infinity)	No	Yes	Yes	Yes	No*4	No	Yes	Yes	Yes	Yes	Yes
PF (Pan Focus)	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes
MF (Manual Focus)	No	Yes	Yes	Yes	No*4	No	Yes	Yes	Yes	Yes	Yes
Recorded Pixels	No	Yes	Yes	Yes	#*5	#	Yes	No*11	Yes	Yes	Yes
Quality Level	No	Yes	Yes	Yes	#*5	#	Yes	No*12	Yes	Yes	Yes
White Balance	No	No	Yes	No	Yes	#*9	Yes	Yes	No	No	No
Focusing Area	No	No*2	Yes	Yes	#*4	#	Yes	Yes*7	Yes	No*13	Yes
Sensitivity	No	Yes	Yes	Yes	No	#	No*10	Yes	Yes	Yes	Yes
EV Compensation	No	No	Yes	Yes	Yes*6	#	Yes	Yes	Yes	Yes	Yes
Movie	No	#	#	#	Yes	#	Yes	Yes	#	#	#
Digital Zoom	No	Yes	Yes	Yes	Yes	#	Yes	Yes	Yes	No	Yes
Instant Review	No	Yes	Yes	Yes	#	#	Yes	Yes	Yes	Yes	Yes
Memory	No	Yes	Yes	Yes	Yes*8	Yes*8	Yes	Yes	Yes	Yes	Yes
Sharpness	No	No	Yes	No	#	#	Yes	Yes	No	No	No
Saturation	No	No	Yes	No	#	#	Yes	Yes	No	No	No
Contrast	No	No	Yes	No	#	#	Yes	Yes	No	No	No

*1 The setting in a shooting mode other than Green Mode is available.
*2 Fixed at Multiple
*3 Fixed at (flash off)
*4 Fixed at **PF** (Pan Focus)
*5 Follows setting for [Movie]
*6 Not available during recording
*7 (Automatic Tracking AF) is not available
*8 Some related settings are applied
*9 (Manual) is not available
*10 Fixed at an automatic high sensitivity setting
*11 Fixed at 3M (2048×1536)
*12 Fixed at ★★
*13 Fixed at [ ] (Multiple) because Face Recognition AF is set

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Optional Accessories

A number of dedicated accessories are available for this camera.

AC adapter kit K-AC51

This kit includes the DC coupler D-DC51, the AC adapter D-AC5 and the AC plug cord D-CO2.
The ending of the AC plug cord name differs depending on the country.

USB cable I-USB7 (*)

AV cable I-AVC7 (*)

Strap

O-ST51 (*)
O-ST24 Genuine leather strap
O-ST8 Silver chain strap
O-ST30

Camera case

O-CC58

Products marked with an asterisk (*) are the same as those supplied with the camera.

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Messages

Messages such as the following may appear on the LCD monitor during camera operation.

Battery depleted	The batteries are exhausted. Replace with new batteries. If using rechargeable batteries, charge the batteries. (p.22)
Memory card full	The SD Memory Card is full and no more images can be saved. Insert a new SD Memory Card or delete unwanted images. (p.26, p.117) Change the quality level or recorded pixels of recorded images and try again. (p.124)
Memory card error	Shooting and playback are impossible due to a problem with the SD Memory Card. You may be able to display or copy the images on the card using a PC.
Card not formatted	The SD Memory Card you have inserted is unformatted or has been formatted on a computer or other device and is not compatible with this camera. (p.148)
Card locked	The SD Memory Card is write-protected. (p.28)
Compression error	This message appears when you have exceeded the capacity limit of the SD Memory Card while taking pictures.
No image/sound	There are no image/sound files on the SD Memory Card.
Movie recording stopped	This message appears when the internal temperature of the camera has exceeded normal operating limits while recording a movie.
Deleting	This message appears when deleting an image or sound file.
Camera cannot play this image and sound	You are trying to play back an image or sound in a format not supported by this camera. You may be able to play it back on another brand of camera or your computer.
Image folder could not be created	The largest file number (9999) has been assigned to an image in the largest folder number (999) and no more images can be saved. Insert a new SD Memory Card or format the card. (p.148)
Protected	The image or sound file you are trying to delete is protected.
Data being recorded	This message appears when you try to switch to ▶ mode while an image is still being recorded, or when the protect setting or DPOF setting is being changed. It disappears after the image is recorded or the setting is changed.

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Data being processed	This message appears when the camera takes more than five seconds to display an image due to image processing, or when the SD Memory Card or built-in memory is being formatted.

Messages such as the following may appear on the LCD monitor when using the PictBridge function.

No paper in the printer	There is no paper in the printer.
No ink in the printer	There is no ink in the printer.
Printer error	An error message has been sent from the printer.
Data error	A data error message has been sent from the printer.
Paper stuck in the printer	The paper is stuck in the printer.

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Problem	Cause	Remedy
Camera will not turn on	Batteries are not installed	Check if batteries are installed. If not, install batteries.
	Battery is installed incorrectly	Check orientation of batteries. Reinsert batteries according to the ⊕⊖ symbols on the battery compartment. (p.20)
	Battery power is low	Insert new batteries or use the AC adapter.
No image on LCD monitor	Camera is connected to a PC	LCD monitor is off when camera is connected to a computer.
	Camera is connected to a TV	LCD monitor is off when camera is connected to a TV.
	Image is displayed but is hard to see	Image on LCD monitor may be hard to see when taking pictures outside in sunlight.
Shutter will not release	Flash is charging	Pictures cannot be taken while the flash is charging. Wait until charging is finished.
	No available space on SD Memory Card or in the built-in memory	Insert SD Memory Card with available space or delete unwanted images. (p.26, p.117)
	Recording	Wait until recording is finished.
Picture is dark	Subject is too far away in a dark environment, such as a night scene	Picture becomes dark if subject is too far away. Take picture within range of flash.

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Problem	Cause	Remedy
Subject is not in focus	Subject is difficult to focus on with autofocus	Lock focus on another object located at same distance (press shutter release button halfway), then aim at target and press shutter release button fully (p.40), or use Manual Focus mode. (p.80)
	Subject is not in focusing area	Position subject in focus frame in middle of LCD monitor. If the subject is outside the focusing area, aim the camera at the subject and lock the focus (press shutter release button halfway), then compose picture and press the shutter release button fully.
	Subject is too close	Set focus mode to . (p.79)
	Focus mode is set to	Normal pictures will be out of focus if taken with focus mode set to .
Flash does not discharge	Flash mode is set to (flash off)	Set to Auto or (Flash On). (p.81)
	Drive mode is set to Focus mode is set to Shooting mode is set to	Flash will not discharge in these modes.
USB connection with computer does not work properly	USB connection mode is set to [PictBridge]	Change the USB connection mode to [PC]. (p.157)
USB connection with printer does not work properly	USB connection mode is set to [PC]	Change the USB connection mode to [PictBridge]. (p.137)

Static electricity may occasionally prevent the camera from operating correctly. If this should occur, try removing and then reloading the batteries. If the camera turns on and operates properly, this indicates that there is no malfunction. You can use the camera as usual.

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Main Specifications

Type	Fully automatic compact digital still camera with built-in zoom lens	
Effective Pixels	7.0 megapixels	
Sensor	7.38 megapixels (total pixels) 1/2.5 inch interline transfer CCD with a primary color filter	
Recorded Pixels	Still Picture	7M (3072×2304 pixels), 5M (2560×1920 pixels) 4M (2304×1728 pixels), 3M (2048×1536 pixels) 2M (1600×1200 pixels), 1024 (1024×768 pixels) 640 (640×480 pixels) * Fixed at 3M (2048×1536) for Frame Composite
	Movie	640 (640×480 pixels), 320 (320×240 pixels)
Sensitivity	Auto, manual (64/100/200/400/800/1600: Standard Output Sensitivity) * When blur reduction mode is selected, output sensitivity is automatically set until standard output sensitivity 1600 for automatic sensitivity.	
File Format	Still Picture	JPEG (Exif 2.2), DCF, DPOF, PictBridge, PRINT Image Matching III
	Movie	MOV (QuickTime Motion JPEG), streaming video, approx. 30fps/15fps, PCM system with monaural sound, full color/sepia/black and white, Movie anti-shake function
	Sound	Voice memo, voice recording: WAVE (PCM) system, monaural
Quality Level	Still Picture	★★★ "Best", ★★ "Better", ★ "Good"
	Movie	★★★ "Best", ★★ "Better", ★ "Good"
Storage Medium	Built-in memory (approx. 21.9 MB), SD Memory Card, SDHC Memory Card	

Approximate Image Storage Capacity and Recording Time

Still Picture

	★★★ (Best)		★★ (Better)		★ (Good)	
	Built-in Memory	128MB	Built-in Memory	128MB	Built-in Memory	128MB
7M 3072×2304	6 pictures	35 pictures	12 pictures	69 pictures	18 pictures	103 pictures
5M 2560×1920	8 pictures	49 pictures	17 pictures	95 pictures	24 pictures	137 pictures
4M 2304×1728	11 pictures	62 pictures	22 pictures	124 pictures	31 pictures	178 pictures
3M 2048×1536	13 pictures	77 pictures	27 pictures	153 pictures	40 pictures	223 pictures
2M 1600×1200	22 pictures	124 pictures	36 pictures	206 pictures	54 pictures	301 pictures
1024 1024× 768	43 pictures	244 pictures	73 pictures	412 pictures	93 pictures	522 pictures
640 640× 480	87 pictures	489 pictures	127 pictures	712 pictures	175 pictures	979 pictures

The image storage capacity is for reference only. The actual image storage capacity may vary depending on the SD memory card and the subject.

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Movie

		30fps		15fps		Sound	
		Built-in Memory	128MB	Built-in Memory	128MB	Built-in Memory	128MB
640 640×480	★★★	20 sec.	1 min. 56 sec.	41 sec.	3 min. 50 sec.	17 min. 23 sec.	1 hr. 36 min. 58 sec.
	★★	28 sec.	2 min. 36 sec.	54 sec.	5 min. 1 sec.		
	★	42 sec.	3 min. 57 sec.	1 min. 22 sec.	7 min. 40 sec.		
320 320×240	★★★	33 sec.	3 min. 6 sec.	1 min. 3 sec.	5 min. 55 sec.		
	★★	45 sec.	4 min. 12 sec.	1 min. 27 sec.	8 min. 9 sec.		
	★	1 min. 3 sec.	5 min. 55 sec.	2 min. 7 sec.	11 min. 51 sec.		

The recording time is for reference only. The actual recording time may vary depending on the SD memory card and the subject.

White Balance	Auto, Daylight, Shade, Tungsten Light, Fluorescent Light, Manual	
Lens	Focal Length	6.3 mm - 18.9 mm (equivalent to 38 mm - 114 mm in 35 mm format)
	Aperture	f/3.1 - f/5.9
	Lens Composition	6 elements in 5 groups (one aspherical element)
	Zoom Type	Electrically driven
	Picture Range	Approx. 44 mm × 33 mm (screen is filled) (Super Macro mode)
	Lens Cover	Electrically driven
Digital Zoom	Capture Mode	Max. 4× (combines with 3× optical zoom to give zoom magnification equivalent to 12×)
LCD Monitor	2.5-inch TFT color LCD monitor (with backlight) with automatic brightness adjustment using ambient light sensor, approx. 115 kilopixels	
Playback Functions	Single-frame, 9-frame index, enlargement (max. 8×, scroll), folder display, calendar display, rotating, sound playback, voice memo playback, slideshow, movie playback, histogram display, bright/dark portion display, Select & Delete, image/sound copying, digital filter (B&W, Sepia, Red, Pink, Purple, Blue, Green, Yellow, Soft), brightness filter, trimming, resizing, framing, red-eye compensation, protect, DPOF	

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Focus Modes	Autofocus, Macro, Super Macro, Infinity, Pan Focus, Manual Focus	
	Type	TTL contrast detection system by sensor 9-point autofocus (multiple/spot/automatic tracking AF changeable)
	Still Picture (from lens front)	Normal : Approx. 0.4 m - ∞ (full zoom range; 0.6 m to ∞ during tele) Macro : Approx. 0.1 m - 1.0 m (Wide) Super Macro : Approx. 0.05 m - 0.4 m Landscape : ∞ (full zoom range) Pan focus : Approx. 1.4 m - ∞ (Wide), approx. 5.8 m - ∞ (Tele) Manual focus : Approx. 0.1 m - ∞ (Wide), approx. 0.6 m - ∞ (Tele) * Face Recognition AF is available only when [Portrait] is selected in picture mode.
	Focus Lock	By half-pressing shutter release button
Exposure Mechanism	AE metering	TTL metering by sensor (multi-segment metering)
	EV Compensation	±2 EV (can be set in 1/3 EV steps)
Shooting Modes	Green, Auto Picture, Program, Night Scene, Movie, Voice Recording, Landscape, Flower, Portrait, Surf & Snow, Sport, Blur reduction, Kids, Pet, Food, Frame Composite	
Movie	Continuous Recording Time	Approx. 1 second - until built-in memory or SD Memory Card is full
Digital Filter	B&W, Sepia, Red, Pink, Purple, Blue, Green, Yellow, Soft, Brightness	
Shutter	Type	Electronic/mechanical shutter
	Speed	Approx. 1/2000 sec. - 4 sec.
Flash	Type	Auto flash with red-eye reduction function
	Flash Modes	Auto (at low illumination), Flash Off, Flash On, Auto + Red-eye, Flash On + Red-eye, (Slow synchronization is possible only in Night Scene mode)
	Effective Range	Wide: Approx. 0.5 m - 4 m (Standard Output Sensitivity: in Auto condition) Tele: Approx. 0.6 m - 2 m (Standard Output Sensitivity: in Auto condition)
Drive Modes	Single-frame, Self-timer (approx. 10 sec., approx. 2 sec.), Continuous	
Self-timer	Electronic control type, control time: Approx. 10 sec., 2 sec.	
Power Supply	Two AA (alkaline, lithium, nickel manganese or Ni-MH) batteries, AC adapter kit (optional)	

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Battery Life	Number of Recordable Images 220 pictures (AA alkaline batteries)*1 330 pictures (AA nickel manganese batteries)*1 460 pictures (AA NiMH batteries)*1 700 pictures (AA lithium batteries)*1	
	Playback Time 500 min. (AA alkaline batteries)*2 570 min. (AA nickel manganese batteries)*2 640 min. (AA NiMH batteries)*2 900 min. (AA lithium batteries)*2	
	Movie Recording Time 90 min. (AA alkaline batteries)*2 120 min. (AA nickel manganese batteries)*2 200 min. (AA NiMH batteries)*2 300 min. (AA lithium batteries)*2	
	Sound Recording Time 570 min. (AA alkaline batteries)*2 630 min. (AA nickel manganese batteries)*2 680 min. (AA NiMH batteries)*2 1340 min. (AA lithium batteries)*2 * 1 Recording capacity shows approximate number of shots recorded during CIPA-compliant testing (with LCD monitor on, flash used for 50% of the shots, and 23 degrees centigrade). Actual performance may vary according to operating conditions. * 2 According to the result of in-house testing. Actual time may differ depending on usage conditions.	
In/Out Port	PC/AV terminal, DC input terminal	
Video Output Format	NTSC/PAL (monaural)	
PictBridge	Printer	PictBridge-compatible printer
	Print Modes	Print One, Print All, DPOF AUTOPRINT
	Paper Size	Card, L, 2L, Postcard, 100 mm×150 mm, 4"×6", 8"×10", Letter, 11"×17", A4, A3, printer setting
	Paper Type	★★★, ★★, ★, printer setting
	Quality	★★★, ★★, ★, printer setting
	Border Status	With/without, printer setting
ImageLink	Supported	
Size	94 (W) × 61 (H) × 23 (D) mm (excluding operating or protruding parts)	
Weight	130 g (excluding batteries and SD Memory Card)	
Weight When Shooting	170 g (including batteries and SD Memory Card)	
Accessories	Two AA alkaline batteries, USB cable, AV cable, software (CD-ROM), strap, dock insert, operating manual, Quick Guide	

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WARRANTY POLICY

All PENTAX cameras purchased through authorized bona fide photographic distribution channels are guaranteed against defects of material or workmanship for a period of twelve months from date of purchase. Service will be rendered, and defective parts will be replaced without cost to you within that period, provided the equipment does not show evidence of impact, sand or liquid damage, mishandling, tampering, battery or chemical corrosion, operation contrary to operating instructions, or modification by an unauthorized repair shop. The manufacturer or its authorized representatives shall not be liable for any repair or alterations except those made with its written consent and shall not be liable for damages from delay or loss of use or from other indirect or consequential damages of any kind, whether caused by defective material or workmanship or otherwise; and it is expressly agreed that the liability of the manufacturer or its representatives under all guarantees or warranties, whether expressed or implied, is strictly limited to the replacement of parts as hereinbefore provided. No refunds will be made on repairs by non-authorized PENTAX service facilities.

Procedure During 12-month Warranty Period
Any PENTAX which proves defective during the 12-month warranty period should be returned to the dealer from whom you purchased the equipment or to the manufacturer. If there is no representative of the manufacturer in your country, send the equipment to the manufacturer, with postage prepaid. In this case, it will take a considerable length of time before the equipment can be returned to you owing to the complicated customs procedures required. If the equipment is covered by warranty, repairs will be made and parts replaced free of charge, and the equipment will be returned to you upon completion of servicing. If the equipment is not covered by warranty, regular charges of the manufacturer or of its representatives will apply. Shipping charges are to be borne by the owner. If your PENTAX was purchased outside of the country where you wish to have it serviced during the warranty period, regular handling and servicing fees may be charged by the manufacturer's representatives in that country. Notwithstanding this, your PENTAX returned to the manufacturer will be serviced free of charge according to this procedure and warranty policy. In any case, however, shipping charges and customs clearance fees to be borne by the sender. To prove the date of your purchase when required, please keep the receipt or bills covering the purchase of your equipment for at least a year. Before sending your equipment for servicing, please make sure that you are sending it to the manufacturer's authorized representatives or their approved repair shops, unless you are sending it directly to the manufacturer. Always obtain a quotation for the service charge, and only after you accept the quoted service charge, instruct the service station to proceed with the servicing.

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- **This warranty policy does not affect the customer's statutory rights.**
- **The local warranty policies available from PENTAX distributors in some countries can supersede this warranty policy. Therefore, we recommend that you review the warranty card supplied with your product at the time of purchase, or contact the PENTAX distributor in your country for more information and to receive a copy of the warranty policy.**

CE The CE Mark is a Directive conformity mark of the European Union.

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For customers in USA
STATEMENT OF FCC COMPLIANCE
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
Changes or modifications not approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
  Increase the separation between the equipment and receiver.
  Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

* Consult the dealer or an experienced radio/TV technician for help.

For customers in Canada
This Class B digital apparatus meets all requirements of the Canadian Interference - Causing Equipment Regulations.

Pour les utilisateurs au Canada
Cet apareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

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Declaration of Conformity

According to 47CFR, Parts 2 and 15 for

Class B Personal Computers and Peripherals

We: PENTAX Imaging Company
A Division of PENTAX of America, Inc.

Located at: 600 12th Street, Suite 300
Golden, Colorado 80401 U.S.A.
Phone: 303-799-8000 FAX: 303-790-1131

Declare under sole responsibility that the product identified herein complies with 47CFR Parts 2 and 15 of the FCC rules as a Class B digital device. Each product marketed is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on the statistical basis as required by 47CFR §2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR §15.101 to §15.109.

Product Name: PENTAX Digital Still Camera

Model Number: Optio M20

Contact person: Customer Service Manager

Date and Place: September, 2006, Colorado

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Information on disposal for users

1. In the European Union

If your product is marked with this symbol, it means that used electrical/electronic products should not be mixed with general household waste. There exists a separate collection system for these products.

Used electric/electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of these products. Following the implementation by member states, private households within the EU states may return their used electrical/electronic equipments to designated collection facilities free of charge*. In some countries your local retailer may also take back your old product free of charge if you purchase a similar new one.
*Please contact your local authority for further details.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical/electronic equipment can be returned free of charge to the dealer, even when you don't purchase a new product. Further collection facilities are listed on the home page of www.swico.ch or www.sens.ch.

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